## **PCT**

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# INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT

(51) International Patent Classification 6:	T			
C12N 15/12, C07K 14/47, A61K 38/17,	A2	(11) International Publication Number:	WO 98/45437	
C12N 5/10, C12Q 1/68	112	(43) International Publication Date:	15 October 1998 (15.10.98)	
(21) International Application Number: PCT/US (22) International Filing Date: 10 April 1998 (	BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GF			
(30) Priority Data: 08/837,312 10 April 1997 (10.04.97)		MX, NO, NZ, PL, PT, RO, RU, TM, TR, TT, UA, UG, UZ, V (GH, GM, KE, LS, MW, SD, S, (AM, AZ, BY, KG, KZ, MD, R (AT, BE, CH, CY, DE, DK, F	, SD, SE, SG, SI, SK, SL, TJ, N, YU, ZW, ARIPO patent Z, UG, ZW), Eurasian patent U, TJ, TM), Eurapean patent	
(71) Applicant: GENETICS INSTITUTE, INC. [US/US]; bridgePark Drive, Cambridge, MA 02140 (US).	87 Can	LU, MC, NL, PT, SE), OAPI CM, GA, GN, ML, MR, NE, S	patent (BF, BJ, CF, CG, CL	
<ul> <li>(72) Inventors: JACOBS, Kenneth; 151 Beaumont Aventon, MA 02160 (US). MCCOY, John, M.; 56 Street, Reading, MA 01867 (US). LAVALLIE, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). Lisa, A.; 124 School Street, Acton, MA 01720 (US BERG, David; 2 Orchard Drive, Acton, MA 017 TREACY, Maurice; 93 Walcott Road, Chestnut I 02167 (US). SPAULDING, Vikki; 11 Meadowbar Billerica, MA 01821 (US). AGOSTINO, Michael Wolcott Avenue, Andover, MA 01810 (US).</li> <li>(74) Agent: SPRUNGER, Suzanne, A.; Genetics Institute, CambridgePark Drive, Cambridge, MA 02140 (US)</li> </ul>	Howar Edward RACII S). MER 220 (US Hill, M. nk Road el, J.; 2	Published  d, Without international search re upon receipt of that report.  A  d, 66	eport and to be republished	
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(54) Title: SECRETED EXPRESSED SEQUENCE TAGS	s (sEST	's)		
(57) Abstract				
Secreted expressed sequence tags (sESTs) isolated from	om a va	rriety of human tissue sources are provided.		
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#### SECRETED EXPRESSED SEQUENCE TAGS (SESTS)

#### FIELD OF THE INVENTION

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The present invention provides novel polynucleotides which are expressed sequence tags (ESTs) for secreted proteins.

#### **BACKGROUND OF THE INVENTION**

Gargantuan efforts have been employed by various investigational projects to randomly sequence portions of naturally-occurring cDNAs. The rationale behind this approach to identification and sequencing genes is founded in two basic principles: (1) that transcribed cDNAs represent the product of the most important genes, namely those that are actually expressed in vivo, and (2) that efforts to sequence genes and other portions of the genome of target organisms which are not actually expressed wastes substantial effort on areas not likely to yield genetic information of therapeutic importance. Thus, the high-throughput sequencing efforts focus on only those portions of the genome which are expressed. The randomly produced cDNA sequences represent "expressed sequence tags" or "ESTs", which identify and can be used as probes for the longer, full-length cDNA or genomic sequence from which they were transcribed.

Although this "shortcut" approach to genomic sequencing presents savings of effort compared to sequencing of the complete genome, it still produced a vast array of ESTs which may not be directly useful as protein therapeutics. To date, the majority of protein-related drug discovery has focused on the use of secreted proteins to produce a desired therapeutic effect. Since the EST approach theoretically identifies all expressed proteins, it produces an EST library which contains a mixture of secreted proteins (such as hormones, cytokines and receptors) and non-secreted proteins (such as, for example, metabolic enzymes and cellular structural proteins), without identifying which ESTs correspond to proteins falling into either category. As a result, these methods are not optimally tailored to the needs of investigators searching for secreted proteins because they must separate the secreted "wheat" from the non-secreted "chaff", wasting effort and resources in the process.

Co-assigned U.S. Patent No. 5,536,637, which is incorporated herein by reference, provides methods for focusing genomic sequencing efforts on sequences encoding the secreted proteins which are of most interest for identification of protein therapeutics. The '637 patent discloses a "signal sequence trap" which selectively identifies ESTs for secreted

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proteins, namely "secreted expressed sequence tags" or "sESTs". It is to these sESTs that the present invention is directed.

#### SUMMARY OF THE INVENTION

The present invention provides for sESTs isolated from a variety of human RNA/cDNA sources.

In preferred embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEO ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEO ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEO ID NO:87, SEO ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEO ID NO:110, SEO ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEO ID NO:115, SEO ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEO ID NO:119, SEO ID NO:120, SEO ID NO:121, SEO ID NO:122, SEO ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127,

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or a complement of said sequence.

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In other embodiments, the present invention provides an isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:66, SEQ ID NO:6

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           NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;
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or a complement of said sequence.

In further embodiments, the present invention provides an isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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SEO ID NO:1, SEO ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEO ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEO ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEO ID NO:22, SEO ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEO ID NO:27, SEO ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEO ID NO:32, SEO ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEO ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEO ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEO ID NO:101, SEO ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEO ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEO ID NO:119, SEO ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEO ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEO ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159. SEO ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163,

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or a complement of said sequence.

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In yet other embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ . ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100,

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25 or to a complement of said sequence.

The invention also provides for proteins encoded by the above-described polynucleotides.

#### **DETAILED DESCRIPTION**

The nucleotide sequences of the sESTs of the present invention are reported in the Sequence Listing below. Table 2 lists the "Clone ID Nos." assigned by applicants to each SEQ ID NO: in the Sequence Listing.

Table 2

Each pair of entries in this table consists of the SEQ ID NO (e.g., 1, 2, etc.) followed by the Clone ID No. for such sequence (e.g., B11, B18, etc.).

		followed by th	e Clone	ID No. for such	sequen	ce (e.g., B11, B)	18, etc.)	
	1	BK8	32		62	DY307	93	DY611
5	2	BV216	DW10	01	63	DY643	94	EC259
	3	BV274	33	DW831	64	DY656	95	DY711
	4	BV48	34	DW859	65	DY675	96	EC248
	5	DN351	35	DW875	66	DY988	97	EC32
	6	DN381	36	DW888	67	DY992	98	DO703
10	7	DN405	37	DW901	68	DY225	99	DO713
	8	DU651	38	DW902	69	DY236	100	DR294
	9	DU660	39	DW904	70	DY242	101	DYI
	10	DU675	40	DW905	71	DY254	102	DY10
	11	DU684	41	DW906	72	DY914	103	DY106
15	12	DD364	42	DW929	73	DY946	104	DY117
	13	DD379	43	DW981	74	DY955	105	DY148
	14	DD389	44	DX191	75	DY959	106	DY167
	15	DD401	45	DX219	76	DY961	107	DY17
	16	DD413	46	DX245	77	DY981	108	DY174
20	17	DD426	47	DX256	78	DY357	109	DY175
	18	DD428	48	DX267	79	DY358	110	DY178
	19	DN293	49	DX66	80	DY381	111	DY23
	20	DD454	50	DX81	81	DY413	112	DY27
	21 -	DD472	51	DY780	82	DY414	113	DY41
25	22	DD475	52	DY803	83	DY415	114	DY42
	23	DT306	53	DY809	84	DY431	115	DY8
	24	DW282	54	DY814	85	DY433	116	DY93
	25	DW300	55	DY261	86	DY436	117	EB107
	26	DW303	56	DY264	87	DY543	118	EB113
30	27	DW323	57	DY266	88	DY565	119	EB163
	28	DT258	58	DY271	89	DY585	120	EB25
	29	DW246	59	DY287	90	DY331	121	EB77
	30	DW324	60	DY297	91	DY586	122	EC172
	31	DW333	61	DY306	92	DY696	123	EC302

	124	EC317	158	EJ90	192	EJ224	226	EP378
	125	EC328	159	EM270	193	EJ240	227	EP38
	126	EC341	160	EM278	194	EJ254	228	EO109
	127	EC349	161	EN186	195	EJ258	229	EO120
5	128	ED105	162	EN215	196	EJ265	230	EQ166
	129	ED21	163	EN217	197	EJ280	231	EQ187
	130	ED23	164	EN234	198	EJ285	232	EQ188
	131	ED30	165	EN239	199	EJ307	233	EQ190
	132	ED43	166	EN256	200	EJ38	234	EQ194
10	133	ED54	167	EN260	201	DO235	235	EQ207
	134	EE177	168	EN264 ·	202	DO238	236	EQ208
	135	EE65	169	EN266	203	DO263	237	EQ214
	136	DQ365	170	EN271	204	DO319	238	EQ215
	137	DK393	171	EN274	205	EJ324	239	EQ218
15	138	DK399	172	EN287	206	EN470	240	EQ219
	139	DO1128	173	EN310	207	EN477	241	EQ220
	140	DO1150	174	EN342	208	EN539	242	EQ221
	141	DZ34	175	EN363	209	EP451	243	EQ226
	142	DZ42	176	EN423	210	EO10	244	EQ229
20	143	EE116	177	EH106	211	EO14	245	EQ230
	144	EE93	178	EH145	1 212	EO48	246	EQ231
	145	DJ387	179	EH166	213	EO58	247	EQ233
	146	DJ402	180	EH167	214	EO60	248	EQ237
	147	DN551	181	EH178	215	EO62	249	EQ261
25	148	DN559	182	EH180	216	EO68	250	EQ272
	149	DN603	183	EH186	217	EO89	251	ER104
	150	DN629	184	EH188	218	EO90	252	ER106
	151	DN631	185	EH189	219	EO92	253	ER128
	152	DO11	186	EH190	220	EO97	254	ER134
30	153	DO118	187	EH203	221	EP108	255	ER174
	154	DO15	188	EH206	222	EP165	256	ER201
	155	DO157	189	EH95	223	EP219	257	ER77
	156	DO19	190	EJ148	224	EP234	258	ER80
	157	EJ53	191	EJ179	225	EP277	259	ER97

	260	ES136	294	ER399	328	FB264	362	FG208
	261	ES306	295	ER408	329	FB38	363	FG265
	262	ES35	296	ER418	330	FB71	364	FG274
	263	ES37	297	ER430	331	FB78	365	FG278
5	264	ES206	298	ER471	332	FC12	366	FG281
	265	ET13	299	ER476	333	FB349	367	FG291
	266	ET22	300	ER493	334	FC136	368	FG294
	267	ET39	301	ER496	335	FC170	369	FG340
	268	ET84	302	ER498	336	FD152	370	FG363
10	269	EF121	303	ER524	337	FE141	371	FG372
	270	EF129	304	EW13	338	FE5	372	FG380
	271	EF45	305	EX25	339	FD131	373	FG401
	272	EF48	306	EX53	340	EC425	374	FG99
	273	EF5	307	EY165	341	EC428	375	FI203
15	274	EF88	308	EY29	342	ED204	376	FE311
	275	EG194	309	EZ35	343	ED205	377	FE315
	276	EG251	310	EZ4	344	ED210	378	FE322
	277	EH12	311	EZ88	345	ED223	379	FE329
	278	EH213	312	EZ93	346	DI301	380	FE341
20	279	EH22	313	FA8	347	DI303	381	FE366
	280	EH221	314	EV234	348	DI310	382	FE375
	281	EH248	315	EW101	349	DI39	383	FE412
	282	EH29	316	EW109	350	DJ90	384	FE415
	283	EH61	317	EW150	351	DM290	385	FE442
25	284	EH68	318	EY197	352	DM304	386	FE472
	285	EH78	319	EY206	353	DN618	387	FE557
	286	EH80	320	EY215	354	DN896	388	FE568
	287	ER311	321	EZ209	355	DN904	389	FE619
	288	ER329	322	FA139	356	FG119	390	FE676
30	289	ER343	323	FA171	357	FG126	391	FE682
	290	ER366	324	FA252	358	FG140	392	FF150
	291	ER369	325	FA28	359	FG193	393	FF153
	292	ER381	326	FA316	360	FG197	394	FF168
	293	ER395	327	FA95	361	FG198	395	FF175

	396	FF181	430	FH17	464	FN203	498	FO201
	397	FF46	431	FH170	465	FN228	499	FO209
	398	FF49	432	FH24	466	FN229	500	FO211
	399	FF97	433	FH3	467	FN251	501	FO215
5	400	FG41	434	FH39	468	FN254	502	FO253
	401	FG437	435	FH56	469	FP134	503	FO254
	402	FG441	436	FH6	470	FP14	504	FO261
	403	FG448	437	FH66	471	FP163	505	FO267
	404	FG45	438	FM109	472	FP172	506	FO275
10	405	FG492	439	FM13	473	FP71	507	FO290
	406	FG504	440	FM15	474	FP87	508	FO292
	407	FG565	441	FM150	475	EI118	509	FO316
	408	FG567	442	FM170	476	EI16	510	FO324
	409	FG57	443	FM28	477	EI187	511	FO327
15	410	FG577	444	FM3	478	EI203	512	FO348
	411	FG615	445	FM32	479	EI228	513	FO36
	412	FG625	446	FM36	480	EI231	514	FO38
	413	FG630	447	FM60	481	E1236	515	FO40
	414	FG659	448	FM86	482	EI239	516	FO66
20	415	FG708	449	FM95	483	EI243	517	FO75
	416	FG91	450	FM98	484	EI250	518	FP185
	417	FG884	451	FM99	485	EI255	519	FP193
	418	FG891	452	FN172	486	E1264	520	FP233
	419	FG909	453	FN19	487	EI273	521	FP239
25	420	FG912	454	FN29	488	FO11	522	FP246
	421	FG949	455	FN53	489	FO125	523	FP262
	422	FG952	456	FK199	490	FO128	524	FP268
	423	FG965	457	FK217	491	FO133	525	FP271
	424	FH10	458	FK23	492	FO135	526	FP273
30	425	FH116	459	FK32	493	FO147	527	FQ505
	426	FH123	460	FK59	494	FO152	528	DN647
	427	FH13	461	FK78	495	FO160	529	DN650
	428	FH136	462	FN189	496	FO173	530	DN676
	429	FH149	463	FN191	497	FO182	531	DO94

	532	FR292	566	DN827	600	FY201	634	DU4
	533	FR436	567	DN833	601	FY202	635	DU75
	534	FR451	568	DN834	602	FY243	636	FY386
	535	FR473	569	DN850	603	FY265	637	FY388
5	536	FS10	570	DO913	604	FY316	638	FY398
	537	FS106	571	DO923	605	FY318	639	FY414
	538	FS107	572	DO935	606	FY321	640	GA48
	539	FS143	573	DO938	607	FY354	641	GA63
	540	FS173	574	DO944	608	FY356	642	GA64
10	541	FS28	575	DO949	609	FY421	643	DT382
	542	FS31	576	DO952	610	FY430	644	DT385
	543	FS40	577	DQ12	611	FY455	645	DT388
	544	FV35	578	DT2	612	FY484	646	DT464
	545	FV49	579	DT44	613	FY524	647	DT470
15	546	FV68	580	DT53	614	FY530	648	DT478
	547	FW13	581	DT8	615	FY628	649	DT482
	548	FW64	582	FQ661	616	DQ242	650	DU114
	549	FY127	583	FQ672	617	DQ262	651	DU118
	550	FY136	584	FQ696	618	DQ276	652	DU123
20	551	FY60	585	FR1087	619	DQ285	653	DU133
	552	FY65	586	FR927	620	DQ304	654	DU156
	553	FY72	587	FR938	621	DQ313	655	DU157
	554	DN1112	588	FR980	622	DQ51	656	FZ5
	555	DN1118	589	FV122	623	DQ54	657	FZ87
25	556	DN1122	590	FV131	624	DR628	658	DW181
	557	DN782	591	FV132	625	GU215	659	DW309
	558	DN793	592	FV84	626	FM481	660	DX1
	559	DN795	593	FV85	627	DT117	661	DX15
	560	DN806	594	FV95	628	DT133	662	DX19
30	561	DN809	595	FX115	629	DT139	663	DX22
	562	DN810	596	FX127	630	DT164	664	DX29
	563	DN814	597	FX154	631	DU160	665	DX3
	564	DN815	598	FY187	632	DU164	666	DX4
	565	DN823	599	FY199	633	DU166	667	FZ428

	668	FZ163	702	FZ209	736	GE89	770	GF151
	669	DY474	703	FZ254	737	DY516	771	GF179
	670	FZ139	704	FZ346	738	DY529	772	GF99
	671	FX76	705	GA82	739	DY530	773	
5	672	FX65	706	GA85	740	DY538	774	GB261 GC499
_	673	FX55	707	GA91	741	DY830		
	674	DU536	708	DX299	742		775	GD177
	675	FZ534	709	DX304	743	DY857 EA17	776	GD7
	676	DU515	710	DX304 DX309	743	EA17	777	GE300
10	677	DU475	711	DX309	745		778	DX179
10	678	DU462	712	DX310 DX328	746	GG73 DU544	779	DY757
	679	DU353	713	DX326 DX336	747	DU560	780 781	EC392
	680	DU341	714	DX350 DX354	747	DZ109	782	EE15
	681	DU306	715	DX354 DX357	749	EA105	783	DU408
15	682	DU278	716	DX357 DX359	750	EA106	784	DU410
10	683	DU244	717	DX363	751	EA110		DU416
	684	DU238	718	DX364	752	EA110	785 786	DU447
	685	DU236	719	DY478	753	EA46	7 <b>8</b> 0	DX111 DX112
	686	DU231	720	DY497	754	EA58	788	DX112
20	687	FZ639	721	DY508	755	EA7	789	DX123
	688	GC456	722	EA89	756	EA82	790	DX146
	689	GG126	723	EA9	757	GE361	791	DX140
	690	GG129	724	EA90	758	FZ510	792	DX155
	691	GG152	725	GC52	759	GE387	793	EE4
25	692	GG170	726	GC52 GC57	760	GE410	794	FZ676
	693	GG182	727	GC585	761	GE463	795	FZ683
	694	GG217	728	GC74	762	GE466	796	GD309
	695	GG440	729	GE28	763	GE468	797	GD358
	696	GG619	730	GE41	764	GE471	798	GG543
30	697	DX279	731	GE51	765	GE524	799	FX516
50	698	DX288	732	GE51 GE60	766	GE524 GE539	800	FX536
	699	DX288 DX290	733	GE68	•			FZ1032
	700	DX290 DX295	734		767 769	GE548	801	
	701			GE80	768	GE549	802	FZ1041
	701	DX298	735	GE82	769	GE99	803	FZ1072

	804	FZ781	838	DD12	872	GP304	906	EM40
	805	GA147	839	DD127	873	GP329	907	EM42
	806	GA284	840	DD177	874	GP338	908	EM58
	807	DY723	841	DD204	875	GP340	909	GF185
5	808	DY737	842	DD207	876	GQ13	910	GF187
	809	DY739	843	DD211	877	GQ18	911	GF196
	810	EC399	844	DD217	878	GQ22	912	GF197
	811	EM254	845	DD504	879	GQ38	913	GF207
	812	FX194	846	DD509	880	GQ40	914	GF209
10	813	FX234	847	DD518	881	GQ56	915	GF212
	814	FX281	848	DD537	882	GQ6	916	GF218
	815	FX317	849	DD541	883	DD312	917	GF221
	816	FX353	850	DD71	884	DD352	918	GF222
	817	FX395	851	DH941	885	EK145	919	GF250
15	818	GA293	852	DQ194	886	EK208	920	GF255
	819	GA321	853	DQ204	887	EK223	921	GF256
	820	GA327	854	DQ215	888	EK234	922	G128
	821	GB160	855	DQ216	889	EK480	923	GI3
	822	GA132	856	EK423	890	EK491	924	GI30
20	823	GA135	857	EK424	891	EK499	925	GI51
	824	GA205	858	EK450	892	EK571	926	GI63
	825	GB814	859	EL15	893	EK578	927	GI7
	826	GF87	860	DD285	894	EK581	928	G174
	827	GG687	861	EK598	895	EK591	929	G188
25	828	GG692	862	EK622	896	DD215	930	G19
	829	GG694	863	E <b>K626</b>	897	EK634	931	DY874
	830	GG702	864	EK649	898	EL358	932	DY886
	831	GG705	865	GO653	899	EL360	933	DY900
	832	GP23	866	GP107	900	EL387	934	EM358
30	833	GP56	867	GP123	901	EL391	935	EM381
	834	GP61	868	GP168	902	EM111	936	EM386
	835	GP65	869	GP232	903	EM112	937	EM388
	836	DD115	870	GP274	904	EM12	938	EM396
	837	DD119	871	GP297	905	EM125	939	EM397

	940	EM401	974	GT43	1008	HU212	1042	EY290
	941	EM406	975	GT6	1009	HU141	1043	EY304
	942	EM408	976	HR712	1010	HS555	1044	EY313
	943	EM409	977	HR704	1011	HR95	1045	FK295
5	944	EM423	978	HR693	1012	HR906	1046	FK301
	945	EM424	979.	HR628	1013	HR76	1047	FK317
	946	FE196	980	HR605	1014	HR753	1048	FK328
	947	FE204	981	EK341	1015	HR731	1049	FK349
	948	FE205	982	EK390	1016	EN116	1050	FK350
10	949	FE207	983	EN108	1017	EM341	1051	FK354
	950	FE215	984	FK235	1018	FJ283	1052	FK365
	951	FE222	985	GK428	1019	FJ307	1053	FQ105
	952	FE227	986	GT56	1020	FJ70	1054	FQ239
	953	,FE228	987	FQ562	1021	FM176	1055	FQ360
15	954	FE248	988	FQ605	1022	FM197	1056	FQ45
	955	FE263	989	FQ608	1023	FM205	1057	GU353
	956	FE271	990	FQ609	1024	FM208	1058	GX167
	957	GF296	991	FQ612	1025	FM229	1059	GX183
	958	GN38	992	FS49	1026	FQ419	1060	GX208
20	959	GN45	993	FS87	1027	GX48	1061	GX210
	960	GN60	994	GM101	1028	GX5	1062	FM369
	961	GN68	995	GM103	1029	GX92	1063	FM375
	962	GN82	996	GM114	1030	· FM289	1064	FM389
	963	GR286	997	GM129	1031	FM290	1065	FM432
25	964	EN10	998	GM153	1032	FM296	1066	FM459
	965	EN37	999	GM158	1033	FM300	1067	FM462
	966	FK127	1000	GM196	1034	FM312	1068	FM479
	967	FK151	1001	GM243	1035	GU512	1069	GX301
	968	GS26	1002	GM259	1036	GU534	1070	GX336
30	969	GS4	1003	GM266	1037	GU608	1071	GX354
	970 -	EV391	1004	HV38	1038	GX159	1072	GX361
	971	FG535	1005	HV23	1039	GX97	1073	GX403
	972	FG852	1006	HV199	1040	EW304	1074	GX408
	973	GT28	1007	HV181	1041	EY281	1075	GX418

	1076	GU830	1110	GG3	1144	GN97	1178	HE91
	1077	GU925	1111	HA510	1145	HB443	1179	HF289
	1078	GU940	1112	HA422	1146	HC324	1180	HG444
	1079	GX1031	1113	HA382	1147	HC327	1181	HF137
5	1080	GX496	1114	HA360	1148	HC505	1182	HD706
	1081	GX504	1115	HA249	1149	HC724	1183	HG710
	1082	GX509	1116	HA199	1150	HA1054	1184	HG733
	1083	GX536	1117	HA192	1151	HB1041	1185	HG775
	1084	GX540	1118	GZ568	1152	HB746	1186	HI222
10	1085	GX645	1119	GY520	1153	HB752	1187	HI39
	1086	GX700	1120	GY515	1154	HB975	1188	HH215
	1087	GX730	1121	GY330	1155	HC705	1189	HH357
	1088	GX750	1122	GY307	1156	HA791	1190	HH372
	1089	GX753	1123	HA81	1157	HC1002	1191	HH378
15	1090	GX760	1124	HA73	1158	HC1071	1192	HH390
	1091	GX814	1125	HA29	1159	HC1089	1193	HH396
	1092	GX851	1126	HA24	1160	HC831	1194	HH404
	1093	GX909	1127	HA18	1161	HC986	1195	HH433
	1094	GY102	1128	GZ78	1162	GY72	1196	HI2
20	1095	GY105	1129	GZ70	1163	HG159	1197	HH544
	1096	GY138	1130	GZ7	1164	HG620	1198	HH608
	1097	GY211	1131	GZ496	1165	HD161	1199	HH612
	1098	GX1082	1132	GZ495	1166	HD353	1200	HH625
	1099	GX1108	1133	GZ485	1167	HD378	1201	НН640
25	1100	GX1140	1134	GZ436	1168	HD417	1202	HH648
	1101	GX1165	1135	GZ420	1169	HD427	1203	HH691
	1102	GX576	1136	GZ378	1170	HD434	1204	HJ120
	1103	GX595	1137	GZ37	1171	HD499	1205	НЈ140
	1104	GX606	1138	GY558	1172	HD569	1206	HJ181
30	1105	GX619	1139	GG894	1173	HD627	1207	HJ184
	1106	G <b>G87</b> 4	1140	GG907	1174	HD648	1208	HJ22
	1107	GG858	1141	GN114	1175	HE111	1209	HJ253
	1108	GG836	1142	GN115	1176	HE142	1210	HJ265
	1109	GG8	1143	GN145	1177	HE178	1211	HJ362

	1212	HJ395	1246	HM372	1280	HO722	1314	HT166
	1213	HJ411	1247	HM380	1281	HO799	1315	HT176
	1214	HJ444	1248	HM422	1282	HO801	1316	HT193
	1215	HJ65	1249	HM444	1283	HO817	1317	HT43
5	1216	HJ674	1250	HM497	1284	HO82	1318	HT81
	1217	HJ705	1251	HM544	1285	HK719	1319	HW149
	1218	HJ81	1252	HM643	1286	HO1077	1320	HW152
	1219	HJ862	1253	HN72	1287	HO1080	1321	HW190
	1220	НЈ949	1254	HN78	1288	HO1087	1322	HW204
10	1221	HK10	1255	HO107	1289	HO1143	1323	HW221
	1222	HK26	1256	HO237	1290	HO1176	1324	HW243
	1223	HK60	1257	HO266	1291	HO1183	1325	HW261
	1224	HJ1037	1258	HO277	1292	HO1216	1326	HW368
	1225	HJ968	1259	HO283	1293	HO1271	1327	HW74
15	1226	HJ981	1260	HO292	1294	HO1329	1328	HX10
	1227	HJ994	1261	HO294	1295	HO1434	1329	HX102
	1228	HJ995	1262	HO305	1296	HO1441	1330	HX110
	1229	HK189	1263	HO315	1297	HO1453	1331	HX113
	1230	HK234	1264	HO332	1298	HO854	1332	HX155
20	1231	HK650	1265	HO358	1299	HO868	1333	HX188
	1232	HK658	1266	HO476	1300	HP262	1334	HX29
	1233	HK669	1267	HO481	1301	HQ36	1335	HX50
	1234	HK713	1268	HO502	1302	HQ72	1336	HY13 ·
	1235	HK899	1269	HO54	1303	GM16	1337	HY3
25	1236	HE187	1270	HO60	1304	GM286	1338	HY55
	1237	HK162	1271	HO600	1305	GM295	1339	HY57
	1238	HL25	1272	HO617	1306	GM335	1340	HZ15
	1239	HL380	1273	HO640	1307	GM365	1341	HZ8
	1240	HL73	1274	HO663	1308	HR397	1342	IAl
30	1241	HM50	1275	HO688	1309	HR560	1343	IA21
	1242	HM54	1276	HO692	1310	HR593	1344	IA32
	1243	HM91	1277	HO693	1311	HR598	1345	IA36
	1244	HM236	1278	HO703	1312	HT13	1346	IB2
	1245	HM280	1279	HO717	1313	HT137	1347	IC2

	1348	IC9	1382	IA167	1413	HW786	1447	1E362
	1349	HY229	1383	1A183	1414	HW810	1448	IH32
	1350	HY244	1384	IA188	1415	HW846	1449	III13
	1351	HY344	1385	IA200	1416	HW849	1450	IJ101
5	1352	HY370	1386	IA220	1417	IB15	1451	IJ163
	1353	HY374	1387	IA64	1418	IB19	1452	IJ167
	1354	HY404	1388	IA69	1419	IB22	1453	IF28
	1355	HY419	1389	1A86	1420	IB28	1454	IF376
	1356	HY435	1390	HW936	1421	IB36	1455	IF456
10	1357	HZ103	1391		1422	IB49	1456	IF87
	1358	HZ109	HW10	17	1423	IC103	1457	IJ1201
	1359	HZIII	1392		1424	IC126	1458	IJ1220
	1360	HZ115	HW10	44	1425	IC132	1459	IJ1237
	1361	HZ71	1393		1426	IC142	1460	IJ1240
15	1362	HZ76	HW10	59	1427	IC155	1461	IJ1247
	1363	HZ88	1394	HW430	1428	IC54	1462	IJ1287
	1364	HW115	1395	HW432	1429	IC87	1463	IJ1292
	1365	HW128	1396	HW440	1430	IC92	1464	IJ1299
	1366	HW477	1397	HW456	1431	IE146	1465	IJ583
20.	1367	HW483	1398	HW518	1432	IE147	1466	1J592
	1368	HW491	1399	HW591	1433	IE149	1467	1J597
	1369	HW499	1400	HW598	1434	IE169	1468	· 1J629
	1370	HW507	1401	HW627	1435	IZ6	1469	1J638
	1371	HZ116	1402	HW646	1436	JE33	1470	IJ640
25	1372	HZ162	1403	HW649	1437	JE44	1471	IJ642
	1373	HZ185	1404	HW693	1438	JE52	1472	IJ686
	1374	HZ201	1405	HW695	1439	IE10	1473	IG25
	1375	HZ224	1406	HW697	1440	IE47	1474	IG35
	1376	HZ262	1407	HW711	1441	IE73	1475	1H40
30	1377	IA106	1408	HW715	1442	JA37	1476	IH54
	1378	IA110	1409	HW730	1443	JA78	1477	IJ288
	1379	IA114	1410	HW732	1444	JB12	1478	IJ76
	1380	IA153	1411	HW741	1445	JB23	1479	IF292
	1381	IA157	1412	HW750	1446	IE352	1480	IF513

	1481	IF548	1515	1Q58
	1482	IJ1043	1516	15488
	1483	IJ1048	1517	IS564
	1484	IJ1054	1518	IT23
5	1485	[]1088	1519	IT44
	1486	13777		
	1487	1J887		
	1488	1J907	•	
	1489	1J928		
10	1490	1J942		٠
	1491	IL1		
	1492	IL100		
	1493	IL112		
	1494	IL28		
15	1495	IK11		
	1496	IK14		
	1497	IK20		
	1498	IK203		
	1499	IK209		
20	1500	IK212		
	1501	IK343		
	1502	IK73		
	1503	IO134		
	1504	IO138		
25	1505	IO151		
	1506	10202		
	1507	IO209		
	1508	IO31		
	1509	IO356		
30	1510	10420		
	1511	1062		
	1512	IQ15		
	1513	IQ45		
	1514	IQ55		

The "Clone ID No." for a particular clone consists of one or two letters followed by a number. The letters designate the tissue source from which the sEST was isolated. Table 3 below lists the various sources which were run through applicants' signal sequence trap. Thus, the tissue source for a particular sEST sequence can be identified in Table 3 by the one and two letter designations used in the relevant "Clone ID No.". For example, a clone designated as "BA312" would have been isolated from a human placenta (26 yrs.) library (i.e., selection "BA") as indicated in Table 3.

As used herein, "polynucleotide" includes single- and double-stranded RNAs, DNAs and RNA:DNA hybrids.

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As used herein a "secreted" protein is one which, when expressed in a suitable host cell, is transported across or through a membrane, including transport as a result of signal sequences in its amino acid sequence. "Secreted" proteins include without limitation proteins secreted wholly (e.g., soluble proteins) or partially (e.g., receptors) from the cell in which they are expressed. "Secreted" proteins also include without limitation proteins which are transported across the membrane of the endoplpasmic reticulum.

Fragments of the proteins of the present invention which are capable of exhibiting biological activity are also encompassed by the present invention. Fragments of the protein may be in linear form or they may be cyclized using known methods, for example, as described in H.U. Saragovi, et al., Bio/Technology 10, 773-778 (1992) and in R.S. McDowell, et al., J. Amer. Chem. Soc. 114, 9245-9253 (1992), both of which are incorporated herein by reference. Such fragments may be fused to carrier molecules such as immunoglobulins for many purposes, including increasing the valency of protein binding sites. For example, fragments of the protein may be fused through "linker" sequences to the Fc portion of an immunoglobulin. For a bivalent form of the protein, such a fusion could be to the Fc portion of an IgG molecule. Other immunoglobulin isotypes may also be used to generate such fusions. For example, a protein - IgM fusion would generate a decavalent form of the protein of the invention.

The present invention also provides both full-length and mature forms of the disclosed proteins. The full-length form of the such proteins is identified in the sequence listing by translation of the nucleotide sequence of each disclosed clone. The mature form of such protein may be obtained by expression of the disclosed full-length polynucleotide (preferably those deposited with ATCC) in a suitable mammalian cell or other host cell. The sequence of the mature form of the protein may also be determinable from the amino acid sequence of the full-length form.

The present invention also provides genes corresponding to the cDNA sequences disclosed herein. The corresponding genes can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include the preparation of probes or primers from the disclosed sequence information for identification and/or amplification of genes in appropriate genomic libraries or other sources of genomic materials.

Where the protein of the present invention is membrane-bound (e.g., is a receptor), the present invention also provides for soluble forms of such protein. In such forms part or all of the intracellular and transmembrane domains of the protein are deleted such that the protein is fully secreted from the cell in which it is expressed. The intracellular and transmembrane domains of proteins of the invention can be identified in accordance with known techniques for determination of such domains from sequence information.

Species homologs of the disclosed polynucleotides and proteins are also provided by the present invention. Species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source from the desired species.

The invention also encompasses allelic variants of the disclosed polynucleotides or proteins; that is, naturally-occurring alternative forms of the isolated polynucleotide which also encode proteins which are identical, homologous or related to that encoded by the polynucleotides disclosed herein.

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The invention also includes polynucleotides with sequences complementary to those of the polynucleotides disclosed herein.

The present invention also includes polynucleotides capable of hybridizing, preferably under reduced stringency conditions, more preferably under stringent conditions, most preferably under highly stringent conditions, to polynucleotides described herein. Examples of stringency conditions are shown in Table 1 below: highly stringent conditions are those that are at least as stringent as, for example, conditions A-F; stringent conditions are at least as stringent as, for example, conditions G-L; and reduced stringency conditions are at least as stringent as, for example, conditions M-R.

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Table 1

	Stringenc y Condition	Polynucleotide Hybrid	Hybrid Length (bp) <sup>‡</sup>	Hybridization Temperature and Buffer <sup>†</sup>	Wash Temperature and Buffer <sup>†</sup>
5	A	DNA:DNA	≥ 50	65°C; 1xSSC -or- 42°C; 1xSSC, 50% formamide	65°C; 0.3xSSC
	В	DNA:DNA	< 50	T <sub>B</sub> *; 1xSSC	T <sub>B</sub> *; 1xSSC
	С	DNA:RNA	≥ 50	67°C; 1xSSC -or- 45°C; 1xSSC, 50% formamide	67°C; 0.3xSSC
	Q	DNA:RNA	< 50	T <sub>D</sub> *; 1xSSC	T <sub>D</sub> *; 1xSSC
	E	RNA:RNA	≥ 50	70°C; 1xSSC -or- 50°C; 1xSSC, 50% formamide	70°C; 0.3xSSC
10	F	RNA:RNA	< 50	T <sub>F</sub> *; 1xSSC	T <sub>F</sub> *; 1xSSC
	G	DNA:DNA	≥ 50	65°C; 4xSSC -or- 42°C; 4xSSC, 50% formamide	65°C; 1xSSC
	Н	DNA:DNA	< 50	T <sub>H</sub> *; 4xSSC	T <sub>H</sub> *; 4xSSC
	I	DNA:RNA	≥ 50	67°C; 4xSSC -or- 45°C; 4xSSC, 50% formamide	67°C; 1xSSC
	J	DNA:RNA	< 50	T <sub>J</sub> *; 4xSSC	T,*; 4xSSC
15	К	RNA:RNA	≥ 50	70°C; 4xSSC -or- 50°C; 4xSSC, 50% formamide	67°C; 1xSSC
	L	RNA:RNA	< 50	T <sub>L</sub> *; 2xSSC	T <sub>L</sub> *; 2xSSC
	М	DNA:DNA	≥ 50	50°C; 4xSSC -or- 40°C; 6xSSC, 50% formamide	50°C; 2xSSC
	N	DNA:DNA	< 50	T <sub>N</sub> *; 6xSSC	T <sub>N</sub> *; 6xSSC
	0	DNA:RNA	≥ 50	55°C; 4xSSC -or- 42°C; 6xSSC, 50% formamide	55°C; 2xSSC
20	P	DNA:RNA	< 50	T <sub>p</sub> *; 6xSSC	T <sub>P</sub> *; 6xSSC
	Q	RNA:RNA	≥ 50	60°C; 4xSSC -or- 45°C; 6xSSC, 50% formamide	60°C; 2xSSC
	R	RNA:RNA	< 50	T <sub>R</sub> *; 4xSSC	T <sub>R</sub> *; 4xSSC

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<sup>‡</sup>: The hybrid length is that anticipated for the hybridized region(s) of the hybridizing polynucleotides. When hybridizing a polynucleotide to a target polynucleotide of unknown sequence, the hybrid length is assumed to be that of the hybridizing polynucleotide. When polynucleotides of known sequence are hybridized, the hybrid length can be determined by aligning the sequences of the polynucleotides and identifying the region or regions of optimal sequence complementarity.

\*: SSPE (1xSSPE is 0.15M NaCl, 10mM NaH<sub>2</sub>PO<sub>4</sub>, and 1.25mM EDTA, pH 7.4) can be substituted for SSC (1xSSC is 0.15M NaCl and 15mM sodium citrate) in the hybridization and wash buffers; washes are performed for 15 minutes after hybridization is complete.

 $^*T_B$  ·  $T_R$ : The hybridization temperature for hybrids anticipated to be less than 50 base pairs in length should be 5-10°C less than the melting temperature ( $T_m$ ) of the hybrid, where  $T_m$  is determined according to the following equations. For hybrids less than 18 base pairs in length,  $T_m(^\circ C) = 2(\# \text{ of } A + T \text{ bases}) + 4(\# \text{ of } G + C \text{ bases})$ . For hybrids between 18 and 49 base pairs in length,  $T_m(^\circ C) = 81.5 + 16.6(\log [Na^+]) + 0.41(\%G+C) - (600/N)$ , where N is the number of bases in the hybrid, and  $[Na^+]$  is the concentration of sodium ions in the hybridization buffer ( $[Na^+]$  for 1xSSC = 0.165 M).

Additional examples of stringency conditions for polynucleotide hybridization are provided in Sambrook, J., E.F. Fritsch, and T. Maniatis, 1989, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, chapters 9 and 11, and *Current Protocols in Molecular Biology*, 1995, F.M. Ausubel et al., eds., John Wiley & Sons, Inc., sections 2.10 and 6.3-6.4, incorporated herein by reference.

Preferably, such hybridizing polynucleotides have at least 70% sequence identity (more preferably, at least 80% identity; most preferably at least 90% or 95% identity) with the polynucleotide of the present invention to which they hybridize, where sequence identity is determined by comparing the sequences of the hybridizing polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps. The soluted polynucleotide encoding the protein of the invention may be operably linked to an expression control sequence such as the pMT2 or pED expression vectors disclosed in Kaufman et al., Nucleic Acids Res. 19, 4485-4490 (1991), in order to produce the protein recombinantly. Many suitable expression control sequences are known in the art. General methods of expressing recombinant proteins are also known and are exemplified in R. Kaufman, Methods in Enzymology 185, 537-566 (1990). As defined herein "operably linked" means that the isolated polynucleotide of the invention and an expression control

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sequence are situated within a vector or cell in such a way that the protein is expressed by a host cell which has been transformed (transfected) with the ligated polynucleotide/expression control sequence.

A number of types of cells may act as suitable host cells for expression of the protein. Mammalian host cells include, for example, monkey COS cells, Chinese Hamster Ovary (CHO) cells, human kidney 293 cells, human epidermal A431 cells, human Colo205 cells, 3T3 cells, CV-1 cells, other transformed primate cell lines, normal diploid cells, cell strains derived from in vitro culture of primary tissue, primary explants, HeLa cells, mouse L cells, BHK, HL-60, U937, HaK or Jurkat cells.

Alternatively, it may be possible to produce the protein in lower eukaryotes such as yeast or in prokaryotes such as bacteria. Potentially suitable yeast strains include Saccharomyces cerevisiae, Schizosaccharomyces pombe, Kluyveromyces strains, Candida, or any yeast strain capable of expressing heterologous proteins. Potentially suitable bacterial strains include Escherichia coli, Bacillus subtilis, Salmonella typhimurium, or any bacterial strain capable of expressing heterologous proteins. If the protein is made in yeast or bacteria, it may be necessary to modify the protein produced therein, for example by phosphorylation or glycosylation of the appropriate sites, in order to obtain the functional protein. Such covalent attachments may be accomplished using known chemical or enzymatic methods.

The protein may also be produced by operably linking the isolated polynucleotide of the invention to suitable control sequences in one or more insect expression vectors, and employing an insect expression system. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, e.g., Invitrogen, San Diego, California, U.S.A. (the MaxBac® kit), and such methods are well known in the art, as described in Summers and Smith, Texas Agricultural Experiment Station Bulletin No. 1555 (1987), incorporated herein by reference. As used herein, an insect cell capable of expressing a polynucleotide of the present invention is "transformed."

The protein of the invention may be prepared by culturing transformed host cells under culture conditions suitable to express the recombinant protein. The resulting expressed protein may then be purified from such culture (i.e., from culture medium or cell extracts) using known purification processes, such as gel filtration and ion exchange chromatography. The purification of the protein may also include an affinity column containing agents which will bind to the protein; one or more column steps over such affinity resins as concanavalin A-agarose, heparin-toyopearl® or Cibacrom blue 3GA

Sepharose<sup>®</sup>; one or more steps involving hydrophobic interaction chromatography using such resins as phenyl ether, butyl ether, or propyl ether; or immunoaffinity chromatography.

Alternatively, the protein of the invention may also be expressed in a form which will facilitate purification. For example, it may be expressed as a fusion protein, such as those of maltose binding protein (MBP), glutathione-S-transferase (GST) or thioredoxin (TRX). Kits for expression and purification of such fusion proteins are commercially available from New England BioLab (Beverly, MA), Pharmacia (Piscataway, NJ) and InVitrogen, respectively. The protein can also be tagged with an epitope and subsequently purified by using a specific antibody directed to such epitope. One such epitope ("Flag") is commercially available from Kodak (New Haven, CT).

Finally, one or more reverse-phase high performance liquid chromatography (RP-HPLC) steps employing hydrophobic RP-HPLC media, e.g., silica gel having pendant methyl or other aliphatic groups, can be employed to further purify the protein. Some or all of the foregoing purification steps, in various combinations, can also be employed to provide a substantially homogeneous isolated recombinant protein. The protein thus purified is substantially free of other mammalian proteins and is defined in accordance with the present invention as an "isolated protein."

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The protein of the invention may also be expressed as a product of transgenic animals, e.g., as a component of the milk of transgenic cows, goats, pigs, or sheep which are characterized by somatic or germ cells containing a nucleotide sequence encoding the protein.

The protein may also be produced by known conventional chemical synthesis. Methods for constructing the proteins of the present invention by synthetic means are known to those skilled in the art. The synthetically-constructed protein sequences, by virtue of sharing primary, secondary or tertiary structural and/or conformational characteristics with proteins may possess biological properties in common therewith, including protein activity. Thus, they may be employed as biologically active or immunological substitutes for natural, purified proteins in screening of therapeutic compounds and in immunological processes for the development of antibodies.

The proteins provided herein also include proteins characterized by amino acid sequences similar to those of purified proteins but into which modification are naturally provided or deliberately engineered. For example, modifications in the peptide or DNA sequences can be made by those skilled in the art using known techniques. Modifications

of interest in the protein sequences may include the alteration, substitution, replacement, insertion or deletion of a selected amino acid residue in the coding sequence. For example, one or more of the cysteine residues may be deleted or replaced with another amino acid to alter the conformation of the molecule. Techniques for such alteration, substitution, replacement, insertion or deletion are well known to those skilled in the art (see, e.g., U.S. Patent No. 4,518,584). Preferably, such alteration, substitution, replacement, insertion or deletion retains the desired activity of the protein.

Other fragments and derivatives of the sequences of proteins which would be expected to retain protein activity in whole or in part and may thus be useful for screening or other immunological methodologies may also be easily made by those skilled in the art given the disclosures herein. Such modifications are believed to be encompassed by the present invention.

### **USES AND BIOLOGICAL ACTIVITY**

The polynucleotides and proteins of the present invention are expected to exhibit one or more of the uses or biological activities (including those associated with assays cited herein) identified below. Uses or activities described for proteins of the present invention may be provided by administration or use of such proteins or by administration or use of polynucleotides encoding such proteins (such as, for example, in gene therapies or vectors suitable for introduction of DNA).

#### Research Uses and Utilities

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The polynucleotides provided by the present invention can be used by the research community for various purposes. The primary use of polynucleotides of the invention which are sESTs is as porbes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond (i.e., is a longer polynucleotide sequence of which substantially the entire sEST is a fragment in the case of a full-length cDNA, or which encodes the sEST in the case of a genomic DNA molecule) to such sESTs. Techniques for use of such sequences as probes for larger cDNAs or genomic molecules are well known in the art.

The polynucleotides can also be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in disease states); as molecular weight markers on Southern gels; as chromosome markers or tags (when labeled) to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and thus discover novel, related DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to "subtract-out" known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a "gene chip" or other support, including for examination of expression patterns; to raise antiprotein antibodies using DNA immunization techniques; and as an antigen to raise anti-DNA antibodies or elicit another immune response. Where the polynucleotide encodes a protein which binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the polynucleotide can also be used in interaction trap assays (such as, for example, that described in Gyuris et al., Cell 75:791-803 (1993)) to identify

polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding interaction.

The proteins provided by the present invention can similarly be used in assay to determine biological activity, including in a panel of multiple proteins for high-throughput screening; to raise antibodies or to elicit another immune response; as a reagent (including the labeled reagent) in assays designed to quantitatively determine levels of the protein (or its receptor) in biological fluids; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in a disease state); and, of course, to isolate correlative receptors or ligand. Where the protein binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the protein can be used to identify the other protein with which binding occurs or to identify inhibitors of the binding interaction. Proteins involved in these binding interactions can also be used to screen for peptide or small molecule inhibitors or agonists of the binding interaction.

Any or all of these research utilities are capable of being developed into reagent grade or kit format for commercialization as research products.

Methods for performing the uses listed above are well known to those skilled in the art. References disclosing such methods include without limitation "Molecular Cloning: A Laboratory Manual", 2d ed., Cold Spring Harbor Laboratory Press, Sambrook, J., E.F. Fritsch and T. Maniatis eds., 1989, and "Methods in Enzymology: Guide to Molecular Cloning Techniques", Academic Press, Berger, S.L. and A.R. Kimmel eds., 1987.

#### Nutritional Uses

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Polynucleotides and proteins of the present invention can also be used as nutritional sources or supplements. Such uses include without limitation use as a protein or amino acid supplement, use as a carbon source, use as a nitrogen source and use as a source of carbohydrate. In such cases the protein or polynucleotide of the invention can be added to the feed of a particular organism or can be administered as a separate solid or liquid preparation, such as in the form of powder, pills, solutions, suspensions or capsules. In the case of microorganisms, the protein or polynucleotide of the invention can be added to the medium in or on which the microorganism is cultured.

## Cytokine and Cell Proliferation/Differentiation Activity

A protein of the present invention may exhibit cytokine, cell proliferation (either inducing or inhibiting) or cell differentiation (either inducing or inhibiting) activity or may induce production of other cytokines in certain cell populations. Many protein factors discovered to date, including all known cytokines, have exhibited activity in one or more factor dependent cell proliferation assays, and hence the assays serve as a convenient confirmation of cytokine activity. The activity of a protein of the present invention is evidenced by any one of a number of routine factor dependent cell proliferation assays for cell lines including, without limitation, 32D, DA2, DA1G, T10, B9, B9/11, BaF3, MC9/G, M+ (preB M+), 2E8, RB5, DA1, 123, T1165, HT2, CTLL2, TF-1, Mo7e and CMK.

The activity of a protein of the invention may, among other means, be measured by the following methods:

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Assays for T-cell or thymocyte proliferation include without limitation those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Bertagnolli et al., J. Immunol. 145:1706-1712, 1990; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Bertagnolli, et al., J. Immunol. 149:3778-3783, 1992; Bowman et al., J. Immunol. 152: 1756-1761, 1994.

Assays for cytokine production and/or proliferation of spleen cells, lymph node cells or thymocytes include, without limitation, those described in: Polyclonal T cell stimulation, Kruisbeek, A.M. and Shevach, E.M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.12.1-3.12.14, John Wiley and Sons, Toronto. 1994; and Measurement of mouse and human Interferon γ, Schreiber, R.D. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.8.1-6.8.8, John Wiley and Sons, Toronto. 1994.

Assays for proliferation and differentiation of hematopoietic and lymphopoietic cells include, without limitation, those described in: Measurement of Human and Murine Interleukin 2 and Interleukin 4, Bottomly, K., Davis, L.S. and Lipsky, P.E. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.3.1-6.3.12, John Wiley and Sons, Toronto. 1991; deVries et al., J. Exp. Med. 173:1205-1211, 1991; Moreau et al., Nature 336:690-692, 1988; Greenberger et al., Proc. Natl. Acad. Sci. U.S.A. 80:2931-2938, 1983; Measurement of mouse and human interleukin 6 - Nordan, R. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.6.1-6.6.5, John Wiley

and Sons, Toronto. 1991; Smith et al., Proc. Natl. Acad. Sci. U.S.A. 83:1857-1861, 1986; Measurement of human Interleukin 11 - Bennett, F., Giannotti, J., Clark, S.C. and Turner, K. J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.15.1 John Wiley and Sons, Toronto. 1991; Measurement of mouse and human Interleukin 9 - Ciarletta, A., Giannotti, J., Clark, S.C. and Turner, K.J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.13.1, John Wiley and Sons, Toronto. 1991.

Assays for T-cell clone responses to antigens (which will identify, among others, proteins that affect APC-T cell interactions as well as direct T-cell effects by measuring proliferation and cytokine production) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function; Chapter 6, Cytokines and their cellular receptors; Chapter 7, Immunologic studies in Humans); Weinberger et al., Proc. Natl. Acad. Sci. USA 77:6091-6095, 1980; Weinberger et al., Eur. J. Immun. 11:405-411, 1981; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988.

# Immune Stimulating or Suppressing Activity

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A protein of the present invention may also exhibit immune stimulating or immune suppressing activity, including without limitation the activities for which assays are described herein. A protein may be useful in the treatment of various immune deficiencies and disorders (including severe combined immunodeficiency (SCID)), e.g., in regulating (up or down) growth and proliferation of T and/or B lymphocytes, as well as effecting the cytolytic activity of NK cells and other cell populations. These immune deficiencies may be genetic or be caused by viral (e.g., HIV) as well as bacterial or fungal infections, or may result from autoimmune disorders. More specifically, infectious diseases causes by viral, bacterial, fungal or other infection may be treatable using a protein of the present invention, including infections by HIV, hepatitis viruses, herpesviruses, mycobacteria, Leishmania spp., malaria spp. and various fungal infections such as candidiasis. Of course, in this regard, a protein of the present invention may also be useful where a boost to the immune system generally may be desirable, *i.e.*, in the treatment of cancer.

Autoimmune disorders which may be treated using a protein of the present invention include, for example, connective tissue disease, multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre

syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitis, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. Such a protein of the present invention may also to be useful in the treatment of allergic reactions and conditions, such as asthma (particularly allergic asthma) or other respiratory problems. Other conditions, in which immune suppression is desired (including, for example, organ transplantation), may also be treatable using a protein of the present invention.

Using the proteins of the invention it may also be possible to immune responses, in a number of ways. Down regulation may be in the form of inhibiting or blocking an immune response already in progress or may involve preventing the induction of an immune response. The functions of activated T cells may be inhibited by suppressing T cell responses or by inducing specific tolerance in T cells, or both. Immunosuppression of T cell responses is generally an active, non-antigen-specific, process which requires continuous exposure of the T cells to the suppressive agent. Tolerance, which involves inducing non-responsiveness or anergy in T cells, is distinguishable from immunosuppression in that it is generally antigen-specific and persists after exposure to the tolerizing agent has ceased. Operationally, tolerance can be demonstrated by the lack of a T cell response upon reexposure to specific antigen in the absence of the tolerizing agent.

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Down regulating or preventing one or more antigen functions (including without limitation B lymphocyte antigen functions (such as, for example, B7)), e.g., preventing high level lymphokine synthesis by activated T cells, will be useful in situations of tissue, skin and organ transplantation and in graft-versus-host disease (GVHD). For example, blockage of T cell function should result in reduced tissue destruction in tissue transplantation. Typically, in tissue transplants, rejection of the transplant is initiated through its recognition as foreign by T cells, followed by an immune reaction that destroys the transplant. The administration of a molecule which inhibits or blocks interaction of a B7 lymphocyte antigen with its natural ligand(s) on immune cells (such as a soluble, monomeric form of a peptide having B7-2 activity alone or in conjunction with a monomeric form of a peptide having an activity of another B lymphocyte antigen (e.g., B7-1, B7-3) or blocking antibody), prior to transplantation can lead to the binding of the molecule to the natural ligand(s) on the immune cells without transmitting the corresponding costimulatory signal. Blocking B lymphocyte antigen function in this matter prevents cytokine synthesis by immune cells, such as T cells, and thus acts as an immunosuppressant Moreover, the lack of costimulation may also be sufficient to anergize the T cells, thereby inducing tolerance in a subject. Induction of long-term tolerance by B lymphocyte antigen-

blocking reagents may avoid the necessity of repeated administration of these blocking reagents. To achieve sufficient immunosuppression or tolerance in a subject, it may also be necessary to block the function of a combination of B lymphocyte antigens.

The efficacy of particular blocking reagents in preventing organ transplant rejection or GVHD can be assessed using animal models that are predictive of efficacy in humans. Examples of appropriate systems which can be used include allogeneic cardiac grafts in rats and xenogeneic pancreatic islet cell grafts in mice, both of which have been used to examine the immunosuppressive effects of CTLA4Ig fusion proteins *in vivo* as described in Lenschow *et al.*, Science 257:789-792 (1992) and Turka *et al.*, Proc. Natl. Acad. Sci USA, 89:11102-11105 (1992). In addition, murine models of GVHD (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 846-847) can be used to determine the effect of blocking B lymphocyte antigen function *in vivo* on the development of that disease.

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Blocking antigen function may also be therapeutically useful for treating autoimmune diseases. Many autoimmune disorders are the result of inappropriate activation of T cells that are reactive against self tissue and which promote the production of cytokines and autoantibodies involved in the pathology of the diseases. Preventing the activation of autoreactive T cells may reduce or eliminate disease symptoms. Administration of reagents which block costimulation of T cells by disrupting receptor:ligand interactions of B lymphocyte antigens can be used to inhibit T cell activation and prevent production of autoantibodies or T cell-derived cytokines which may be involved in the disease process. Additionally, blocking reagents may induce antigen-specific tolerance of autoreactive T cells which could lead to long-term relief from the disease. The efficacy of blocking reagents in preventing or alleviating autoimmune disorders can be determined using a number of well-characterized animal models of human autoimmune diseases. Examples include murine experimental autoimmune encephalitis, systemic lupus erythmatosis in MRL/lpr/lpr mice or NZB hybrid mice, murine autoimmune collagen arthritis, diabetes mellitus in NOD mice and BB rats, and murine experimental myasthenia gravis (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 840-856).

Upregulation of an antigen function (preferably a B lymphocyte antigen function), as a means of up regulating immune responses, may also be useful in therapy. Upregulation of immune responses may be in the form of enhancing an existing immune response or eliciting an initial immune response. For example, enhancing an immune response through stimulating B lymphocyte antigen function may be useful in cases of viral

infection. In addition, systemic viral diseases such as influenza, the common cold, and encephalitis might be alleviated by the administration of stimulatory forms of B lymphocyte antigens systemically.

Alternatively, anti-viral immune responses may be enhanced in an infected patient by removing T cells from the patient, costimulating the T cells *in vitro* with viral antigenpulsed APCs either expressing a peptide of the present invention or together with a stimulatory form of a soluble peptide of the present invention and reintroducing the *in vitro* activated T cells into the patient. Another method of enhancing anti-viral immune responses would be to isolate infected cells from a patient, transfect them with a nucleic acid encoding a protein of the present invention as described herein such that the cells express all or a portion of the protein on their surface, and reintroduce the transfected cells into the patient. The infected cells would now be capable of delivering a costimulatory signal to, and thereby activate, T cells *in vivo*.

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In another application, up regulation or enhancement of antigen function (preferably B lymphocyte antigen function) may be useful in the induction of tumor immunity. Tumor cells (e.g., sarcoma, melanoma, lymphoma, leukemia, neuroblastoma, carcinoma) transfected with a nucleic acid encoding at least one peptide of the present invention can be administered to a subject to overcome tumor-specific tolerance in the subject. If desired, the tumor cell can be transfected to express a combination of peptides. For example, tumor cells obtained from a patient can be transfected ex vivo with an expression vector directing the expression of a peptide having B7-2-like activity alone, or in conjunction with a peptide having B7-1-like activity and/or B7-3-like activity. The transfected tumor cells are returned to the patient to result in expression of the peptides on the surface of the transfected cell. Alternatively, gene therapy techniques can be used to target a tumor cell for transfection in vivo.

The presence of the peptide of the present invention having the activity of a B lymphocyte antigen(s) on the surface of the tumor cell provides the necessary costimulation signal to T cells to induce a T cell mediated immune response against the transfected tumor cells. In addition, tumor cells which lack MHC class I or MHC class II molecules, or which fail to reexpress sufficient amounts of MHC class I or MHC class II molecules, can be transfected with nucleic acid encoding all or a portion of (e.g., a cytoplasmic-domain truncated portion) of an MHC class I  $\alpha$  chain protein and  $\beta$  microglobulin protein or an MHC class II  $\alpha$  chain protein and an MHC class II  $\beta$  chain protein to thereby express MHC class I or MHC class II proteins on the cell surface. Expression of the appropriate class I

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or class II MHC in conjunction with a peptide having the activity of a B lymphocyte antigen (e.g., B7-1, B7-2, B7-3) induces a T cell mediated immune response against the transfected tumor cell. Optionally, a gene encoding an antisense construct which blocks expression of an MHC class II associated protein, such as the invariant chain, can also be cotransfected with a DNA encoding a peptide having the activity of a B lymphocyte antigen to promote presentation of tumor associated antigens and induce tumor specific immunity. Thus, the induction of a T cell mediated immune response in a human subject may be sufficient to overcome tumor-specific tolerance in the subject.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for thymocyte or splenocyte cytotoxicity include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Bowmanet al., J. Virology 61:1992-1998; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Brown et al., J. Immunol. 153:3079-3092, 1994.

Assays for T-cell-dependent immunoglobulin responses and isotype switching (which will identify, among others, proteins that modulate T-cell dependent antibody responses and that affect Th1/Th2 profiles) include, without limitation, those described in: Maliszewski, J. Immunol. 144:3028-3033, 1990; and Assays for B cell function: *In vitro* antibody production, Mond, J.J. and Brunswick, M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.8.1-3.8.16, John Wiley and Sons, Toronto. 1994.

Mixed lymphocyte reaction (MLR) assays (which will identify, among others, proteins that generate predominantly Th1 and CTL responses) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-

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3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., J. Immunol. 149:3778-3783, 1992.

Dendritic cell-dependent assays (which will identify, among others, proteins expressed by dendritic cells that activate naive T-cells) include, without limitation, those described in: Guery et al., J. Immunol. 134:536-544, 1995; Inaba et al., Journal of Experimental Medicine 173:549-559, 1991: Macatonia et al., Journal of Immunology 154:5071-5079, 1995; Porgador et al., Journal of Experimental Medicine 182:255-260, 1995; Nair et al., Journal of Virology 67:4062-4069, 1993; Huang et al., Science 264:961-965, 1994; Macatonia et al., Journal of Experimental Medicine 169:1255-1264, 1989; Bhardwaj et al., Journal of Clinical Investigation 94:797-807, 1994; and Inaba et al., Journal of Experimental Medicine 172:631-640, 1990.

Assays for lymphocyte survival/apoptosis (which will identify, among others, proteins that prevent apoptosis after superantigen induction and proteins that regulate lymphocyte homeostasis) include, without limitation, those described in: Darzynkiewicz et al., Cytometry 13:795-808, 1992; Gorczyca et al., Leukemia 7:659-670, 1993; Gorczyca et al., Cancer Research 53:1945-1951, 1993; Itoh et al., Cell 66:233-243, 1991; Zacharchuk, Journal of Immunology 145:4037-4045, 1990; Zamai et al., Cytometry 14:891-897, 1993; Gorczyca et al., International Journal of Oncology 1:639-648, 1992.

Assays for proteins that influence early steps of T-cell commitment and development include, without limitation, those described in: Antica et al., Blood 84:111-117, 1994; Fine et al., Cellular Immunology 155:111-122, 1994; Galy et al., Blood 85:2770-2778, 1995; Toki et al., Proc. Nat. Acad Sci. USA 88:7548-7551, 1991.

## 25 <u>Hematopoiesis Regulating Activity</u>

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A protein of the present invention may be useful in regulation of hematopoiesis and, consequently, in the treatment of myeloid or lymphoid cell deficiencies. Even marginal biological activity in support of colony forming cells or of factor-dependent cell lines indicates involvement in regulating hematopoiesis, e.g. in supporting the growth and proliferation of erythroid progenitor cells alone or in combination with other cytokines, thereby indicating utility, for example, in treating various anemias or for use in conjunction with irradiation/chemotherapy to stimulate the production of erythroid precursors and/or erythroid cells; in supporting the growth and proliferation of myeloid cells such as granulocytes and monocytes/macrophages (i.e., traditional CSF activity) useful, for

> example, in conjunction with chemotherapy to prevent or treat consequent myelosuppression; in supporting the growth and proliferation of megakaryocytes and consequently of platelets thereby allowing prevention or treatment of various platelet disorders such as thrombocytopenia, and generally for use in place of or complimentary to platelet transfusions; and/or in supporting the growth and proliferation of hematopoietic stem cells which are capable of maturing to any and all of the above-mentioned hematopoietic cells and therefore find therapeutic utility in various stem cell disorders (such as those usually treated with transplantation, including, without limitation, aplastic anemia and paroxysmal nocturnal hemoglobinuria), as well as in repopulating the stem cell compartment post irradiation/chemo:herapy, either in-vivo or ex-vivo (i.e., in conjunction with bone marrow transplantation or with peripheral progenitor cell transplantation (homologous or heterologous)) as normal cells or genetically manipulated for gene therapy.

> The activity of a protein of the invention may, among other means, be measured by the following methods:

> Suitable assays for proliferation and differentiation of various hematopoietic lines are cited above.

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Assays for embryonic stem cell differentiation (which will identify, among others, proteins that influence embryonic differentiation hematopoiesis) include, without limitation, those described in: Johansson et al. Cellular Biology 15:141-151, 1995; Keller et al., Molecular and Cellular Biology 13:473-486, 1993; McClanahan et al., Blood 81:2903-2915, 1993.

Assays for stem cell survival and differentiation (which will identify, among others, proteins that regulate lympho-hematopoiesis) include, without limitation, those described in: Methylcellulose colony forming assays, Freshney, M.G. In Culture of Hematopoietic 25 Cells. R.I. Freshney, et al. eds. Vol pp. 265-268, Wiley-Liss, Inc., New York, NY. 1994; Hirayama et al., Proc. Natl. Acad. Sci. USA 89:5907-5911, 1992; Primitive hematopoietic colony forming cells with high proliferative potential, McNiece, I.K. and Briddell, R.A. In Culture of Hematopoietic Cells. R.I. Freshney, et al. eds. Vol pp. 23-39, Wiley-Liss, Inc., New York, NY. 1994; Neben et al., Experimental Hematology 22:353-359, 1994; Cobblestone area forming cell assay, Ploemacher, R.E. In Culture of Hematopoietic Cells. R.I. Freshney, et al. eds. Vol pp. 1-21, Wiley-Liss, Inc.., New York, NY. 1994; Long term bone marrow cultures in the presence of stromal cells, Spooncer, E., Dexter, M. and Allen, T. In Culture of Hematopoietic Cells. R.I. Freshney, et al. eds. Vol pp. 163-179, Wiley-Liss, Inc., New York, NY. 1994; Long term culture initiating cell assay, Sutherland,

H.J. In *Culture of Hematopoietic Cells*. R.I. Freshney, *et al.* eds. Vol pp. 139-162, Wiley-Liss, Inc., New York, NY. 1994.

### Tissue Growth Activity

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A protein of the present invention also may have utility in compositions used for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, as well as for wound healing and tissue repair and replacement, and in the treatment of burns, incisions and ulcers.

A protein of the present invention, which induces cartilage and/or bone growth in circumstances where bone is not normally formed, has application in the healing of bone fractures and cartilage damage or defects in humans and other animals. Such a preparation employing a protein of the invention may have prophylactic use in closed as well as open fracture reduction and also in the improved fixation of artificial joints. *De novo* bone formation induced by an osteogenic agent contributes to the repair of congenital, trauma induced, or oncologic resection induced craniofacial defects, and also is useful in cosmetic plastic surgery.

A protein of this invention may also be used in the treatment of periodontal disease, and in other tooth repair processes. Such agents may provide an environment to attract bone-forming cells, stimulate growth of bone-forming cells or induce differentiation of progenitors of bone-forming cells. A protein of the invention may also be useful in the treatment of osteoporosis or osteoarthritis, such as through stimulation of bone and/or cartilage repair or by blocking inflammation or processes of tissue destruction (collagenase activity, osteoclast activity, etc.) mediated by inflammatory processes.

Another category of tissue regeneration activity that may be attributable to the protein of the present invention is tendon/ligament formation. A protein of the present invention, which induces tendon/ligament-like tissue or other tissue formation in circumstances where such tissue is not normally formed, has application in the healing of tendon or ligament tears, deformities and other tendon or ligament defects in humans and other animals. Such a preparation employing a tendon/ligament-liketissue inducing protein may have prophylactic use in preventing damage to tendon or ligament tissue, as well as use in the improved fixation of tendon or ligament to bone or other tissues, and in repairing defects to tendon or ligament tissue. De novo tendon/ligament-liketissue formation induced by a composition of the present invention contributes to the repair of congenital, trauma induced, or other tendon or ligament defects of other origin, and is also useful in cosmetic

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plastic surgery for attachment or repair of tendons or ligaments. The compositions of the present invention may provide an environment to attract tendon- or ligament-forming cells, stimulate growth of tendon- or ligament-forming cells, induce differentiation of progenitors of tendon- or ligament-forming cells, or induce growth of tendon/ligament cells or progenitors ex vivo for return in vivo to effect tissue repair. The compositions of the invention may also be useful in the treatment of tendinitis, carpal tunnel syndrome and other tendon or ligament defects. The compositions may also include an appropriate matrix and/or sequestering agent as a carrier as is well known in the art.

The protein of the present invention may also be useful for proliferation of neural cells and for regeneration of nerve and brain tissue, *i.e.* for the treatment of central and peripheral nervous system diseases and neuropathies, as well as mechanical and traumatic disorders, which involve degeneration, death or trauma to neural cells or nerve tissue. More specifically, a protein may be used in the treatment of diseases of the peripheral nervous system, such as peripheral nerve injuries, peripheral neuropathy and localized neuropathies, and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. Further conditions which may be treated in accordance with the present invention include mechanical and traumatic disorders, such as spinal cord disorders, head trauma and cerebrovascular diseases such as stroke. Peripheral neuropathies resulting from chemotherapy or other medical therapies may also be treatable using a protein of the invention.

Proteins of the invention may also be useful to promote better or faster closure of non-healing wounds, including without limitation pressure ulcers, ulcers associated with vascular insufficiency, surgical and traumatic wounds, and the like.

It is expected that a protein of the present invention may also exhibit activity for generation or regeneration of other tissues, such as organs (including, for example, pancreas, liver, intestine, kidney, skin, endothelium), muscle (smooth, skeletal or cardiac) and vascular (including vascular endothelium) tissue, or for promoting the growth of cells comprising such tissues. Part of the desired effects may be by inhibition or modulation of fibrotic scarring to allow normal tissue to regenerate. A protein of the invention may also exhibit angiogenic activity.

A protein of the present invention may also be useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage.

A protein of the present invention may also be useful for promoting or inhibiting differentiation of tissues described above from precursor tissues or cells; or for inhibiting the growth of tissues described above.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for tissue generation activity include, without limitation, those described in: International Patent Publication No. WO95/16035 (bone, cartilage, tendon); International Patent Publication No. WO95/05846 (nerve, neuronal); International Patent Publication No. WO91/07491 (skin, endothelium).

Assays for wound healing activity include, without limitation, those described in: Winter, Epidermal Wound Healing, pps. 71-112 (Maibach, HI and Rovee, DT, eds.), Year Book Medical Publishers, Inc., Chicago, as modified by Eaglstein and Mertz, J. Invest. Dermatol 71:382-84 (1978).

### Activin/Inhibin Activity

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A protein of the present invention may also exhibit activin- or inhibin-related activities. Inhibins are characterized by their ability to inhibit the release of follicle stimulating hormone (FSH), while activins and are characterized by their ability to stimulate the release of follicle stimulating hormone (FSH). Thus, a protein of the present invention, alone or in heterodimers with a member of the inhibin  $\alpha$  family, may be useful as a contraceptive based on the ability of inhibins to decrease fertility in female mammals and decrease spermatogenesis in male mammals. Administration of sufficient amounts of other inhibins can induce infertility in these mammals. Alternatively, the protein of the invention, as a homodimer or as a heterodimer with other protein subunits of the inhibin- $\beta$  group, may be useful as a fertility inducing therapeutic, based upon the ability of activin molecules in stimulating FSH release from cells of the anterior pituitary. See, for example, United States Patent 4,798,885. A protein of the invention may also be useful for advancement of the onset of fertility in sexually immature mammals, so as to increase the lifetime reproductive performance of domestic animals such as cows, sheep and pigs.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for activin/inhibin activity include, without limitation, those described in: Vale et al., Endocrinology 91:562-572, 1972; Ling et al., Nature 321:779-782, 1986; Vale

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et al., Nature 321:776-779, 1986; Mason et al., Nature 318:659-663, 1985; Forage et al., Proc. Natl. Acad. Sci. USA 83:3091-3095, 1986.

### Chemotactic/Chemokinetic Activity

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A protein of the present invention may have chemotactic or chemokinetic activity (e.g., act as a chemokine) for mammalian cells, including, for example, monocytes, fibroblasts, neutrophils, T-cells, mast cells, eosinophils, epithelial and/or endothelial cells. Chemotactic and chemokinetic proteins can be used to mobilize or attract a desired cell population to a desired site of action. Chemotactic or chemokinetic proteins provide particular advantages in treatment of wounds and other trauma to tissues, as well as in treatment of localized infections. For example, attraction of lymphocytes, monocytes or neutrophils to tumors or sites of infection may result in improved immune responses against the tumor or infecting agent.

A protein or peptide has chemotactic activity for a particular cell population if it can stimulate, directly or indirectly, the directed orientation or movement of such cell population. Preferably, the protein or peptide has the ability to directly stimulate directed movement of cells. Whether a particular protein has chemotactic activity for a population of cells can be readily determined by employing such protein or peptide in any known assay for cell chemotaxis.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for chemotactic activity (which will identify proteins that induce or prevent chemotaxis) consist of assays that measure the ability of a protein to induce the migration of cells across a membrane as well as the ability of a protein to induce the adhesion of one cell population to another cell population. Suitable assays for movement and adhesion include, without limitation, those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 6.12, Measurement of alpha and beta Chemokines 6.12.1-6.12.28; Taub et al. J. Clin. Invest. 95:1370-1376, 1995; Lind et al. APMIS 103:140-146, 1995; Muller et al Eur. J. Immunol. 25: 1744-1748; Gruber et al. J. of Immunol. 152:5860-5867, 1994; Johnston et al. J. of Immunol. 153: 1762-1768, 1994.

## Hemostatic and Thrombolytic Activity

A protein of the invention may also exhibit hemostatic or thrombolytic activity. As a result, such a protein is expected to be useful in treatment of various coagulation disorders (including hereditary disorders, such as hemophilias) or to enhance coagulation and other hemostatic events in treating wounds resulting from trauma, surgery or other causes. A protein of the invention may also be useful for dissolving or inhibiting formation of thromboses and for treatment and prevention of conditions resulting therefrom (such as, for example, infarction of cardiac and central nervous system vessels (e.g., stroke).

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assay for hemostatic and thrombolytic activity include, without limitation, those described in: Linet et al., J. Clin. Pharmacol. 26:131-140, 1986; Burdick et al., Thrombosis Res. 45:413-419, 1987; Humphrey et al., Fibrinolysis 5:71-79 (1991); Schaub, Prostaglandins 35:467-474, 1988.

### 15 Receptor/Ligand Activity

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A protein of the present invention may also demonstrate activity as receptors, receptor ligands or inhibitors or agonists of receptor/ligand interactions. Examples of such receptors and ligands include, without limitation, cytokine receptors and their ligands, receptor kinases and their ligands, receptor phosphatases and their ligands, receptors involved in cell-cell interactions and their ligands (including without limitation, cellular adhesion molecules (such as selectins, integrins and their ligands) and receptor/ligand pairs involved in antigen presentation, antigen recognition and development of cellular and humoral immune responses). Receptors and ligands are also useful for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. A protein of the present invention (including, without limitation, fragments of receptors and ligands) may themselves be useful as inhibitors of receptor/ligand interactions.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for receptor-ligand activity include without limitation those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 7.28, Measurement of Cellular Adhesion under static conditions 7.28.1-7.28.22), Takai et al., Proc. Natl. Acad. Sci. USA 84:6864-6868, 1987; Bierer et al., J. Exp. Med. 168:1145-1156, 1988; Rosenstein et al., J. Exp. Med.

169:149-160 1989; Stoltenborg et al., J. Immunol. Methods 175:59-68, 1994; Stitt et al., Cell 80:661-670, 1995.

### Anti-Inflammatory Activity

Proteins of the present invention may also exhibit anti-inflammatory activity. The anti-inflammatory activity may be achieved by providing a stimulus to cells involved in the inflammatory response, by inhibiting or promoting cell-cell interactions (such as, for example, cell adhesion), by inhibiting or promoting chemotaxis of cells involved in the inflammatory process, inhibiting or promoting cell extravasation, or by stimulating or suppressing production of other factors which more directly inhibit or promote an inflammatory response. Proteins exhibiting such activities can be used to treat inflammatory conditions including chronic or acute conditions), including without limitation inflammation associated with infection (such as septic shock, sepsis or systemic inflammatory response syndrome (SIRS)), ischemia-reperfusioninjury, endotoxin lethality, arthritis, complement-mediated hyperacute rejection, nephritis, cytokine or chemokine-induced lung injury, inflammatory bowel disease, Crohn's disease or resulting from over production of cytokines such as TNF or IL-1. Proteins of the invention may also be useful to treat anaphylaxis and hypersensitivity to an antigenic substance or material.

# 20. <u>Tumor Inhibition Activity</u>

In addition to the activities described above for immunological treatment or prevention of tumors, a protein of the invention may exhibit other anti-tumor activities. A protein may inhibit tumor growth directly or indirectly (such as, for example, via ADCC). A protein may exhibit its tumor inhibitory activity by acting on tumor tissue or tumor precursor tissue, by inhibiting formation of tissues necessary to support tumor growth (such as, for example, by inhibiting angiogenesis), by causing production of other factors, agents or cell types which inhibit tumor growth, or by suppressing, eliminating or inhibiting factors, agents or cell types which promote tumor growth.

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# Other Activities

A protein of the invention may also exhibit one or more of the following additional activities or effects: inhibiting the growth, infection or function of, or killing, infectious agents, including, without limitation, bacteria, viruses, fungi and other parasites; effecting

(suppressing or enhancing) bodily characteristics, including, without limitation, height, weight, hair color, eye color, skin, fat to lean ratio or other tissue pigmentation, or organ or body part size or shape (such as, for example, breast augmentation or diminution, change in bone form or shape); effecting biorhythms or caricadic cycles or rhythms; effecting the fertility of male or female subjects; effecting the metabolism, catabolism, anabolism, processing, utilization, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent behaviors; providing analgesic effects or other pain reducing effects; promoting differentiation and growth of embryonic stem cells in lineages other than hematopoietic lineages; hormonal or endocrine activity; in the case of enzymes, correcting deficiencies of the enzyme and treating deficiency-related diseases; treatment of hyperproliferative disorders (such as, for example, psoriasis); immunoglobulin-like activity (such as, for example, the ability to bind antigens or complement); and the ability to act as an antigen in a vaccine composition to raise an immune response against such protein or another material or entity which is cross-reactive with such protein.

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### **ADMINISTRATION AND DOSING**

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A protein of the present invention (from whatever source derived, including without limitation from recombinant and non-recombinant sources) may be used in a pharmaceutical composition when combined with a pharmaceutically acceptable carrier. composition may also contain (in addition to protein and a carrier) diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials well known in the art. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredient(s). The characteristics of the carrier will depend on the route of administration. The pharmaceutical composition of the invention may also contain cytokines, lymphokines, or other hematopoietic factors such as M-CSF, GM-CSF, TNF, IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-14, IL-15, IFN, TNF0, TNF1, TNF2, G-CSF, Meg-CSF, thrombopoietin, stem cell factor, and erythropoietin. The pharmaceutical composition may further contain other agents which either enhance the activity of the protein or compliment its activity or use in treatment. Such additional factors and/or agents may be included in the pharmaceutical composition to produce a synergistic effect with protein of the invention, or to minimize side effects. Conversely, protein of the present invention may be included in formulations of the particular cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent to minimize side effects of the cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent.

A protein of the present invention may be active in multimers (e.g., heterodimers or homodimers) or complexes with itself or other proteins. As a result, pharmaceutical compositions of the invention may comprise a protein of the invention in such multimeric or complexed form.

The pharmaceutical composition of the invention may be in the form of a complex of the protein(s) of present invention along with protein or peptide antigens. The protein and/or peptide antigen will deliver a stimulatory signal to both B and T lymphocytes. B lymphocytes will respond to antigen through their surface immunoglobulin receptor. T lymphocytes will respond to antigen through the T cell receptor (TCR) following presentation of the antigen by MHC proteins. MHC and structurally related proteins including those encoded by class I and class II MHC genes on host cells will serve to present the peptide antigen(s) to T lymphocytes. The antigen components could also be supplied as purified MHC-peptide complexes alone or with co-stimulatory molecules that

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can directly signal T cells. Alternatively antibodies able to bind surface immunolgobulin and other molecules on B cells as well as antibodies able to bind the TCR and other molecules on T cells can be combined with the pharmaceutical composition of the invention

The pharmaceutical composition of the invention may be in the form of a liposome in which protein of the present invention is combined, in addition to other pharmaceutically acceptable carriers, with amphipathic agents such as lipids which exist in aggregated form as micelles, insoluble monolayers, liquid crystals, or lamellar layers in aqueous solution. Suitable lipids for liposomal formulation include, without limitation, monoglycerides, diglycerides, sulfatides, lysolecithin, phospholipids, saponin, bile acids, and the like. Preparation of such liposomal formulations is within the level of skill in the art, as disclosed, for example, in U.S. Patent No. 4,235,871; U.S. Patent No. 4,501,728; U.S. Patent No. 4,837,028; and U.S. Patent No. 4,737,323, all of which are incorporated herein by reference.

As used herein, the term "therapeutically effective amount" means the total amount of each active component of the pharmaceutical composition or method that is sufficient to show a meaningful patient benefit, i.e., treatment, healing, prevention or amelioration of the relevant medical condition, or an increase in rate of treatment, healing, prevention or amelioration of such conditions. When applied to an individual active ingredient, administered alone, the term refers to that ingredient alone. When applied to a combination, the term refers to combined amounts of the active ingredients that result in the therapeutic effect, whether administered in combination, serially or simultaneously.

In practicing the method of treatment or use of the present invention, a therapeutically effective amount of protein of the present invention is administered to a mammal having a condition to be treated. Protein of the present invention may be administered in accordance with the method of the invention either alone or in combination with other therapies such as treatments employing cytokines, lymphokines or other hematopoietic factors. When co-administered with one or more cytokines, lymphokines or other hematopoietic factors, protein of the present invention may be administered either simultaneously with the cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors, or sequentially. If administered sequentially, the attending physician will decide on the appropriate sequence of administering protein of the present invention in combination with cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors.

Administration of protein of the present invention used in the pharmaceutical composition or to practice the method of the present invention can be carried out in a variety of conventional ways, such as oral ingestion, inhalation, topical application or cutaneous, subcutaneous, intraperitoneal, parenteral or intravenous injection. Intravenous administration to the patient is preferred.

When a therapeutically effective amount of protein of the present invention is administered orally, protein of the present invention will be in the form of a tablet, capsule, powder, solution or elixir. When administered in tablet form, the pharmaceutical composition of the invention may additionally contain a solid carrier such as a gelatin or an adjuvant. The tablet, capsule, and powder contain from about 5 to 95% protein of the present invention, and preferably from about 25 to 90% protein of the present invention. When administered in liquid form, a liquid carrier such as water, petroleum, oils of animal or plant origin such as peanut oil, mineral oil, soybean oil, or sesame oil, or synthetic oils may be added. The liquid form of the pharmaceutical composition may further contain physiological saline solution, dextrose or other saccharide solution, or glycols such as ethylene glycol, propylene glycol or polyethylene glycol. When administered in liquid form, the pharmaceutical composition contains from about 0.5 to 90% by weight of protein of the present invention, and preferably from about 1 to 50% protein of the present invention.

When a therapeutically effective amount of protein of the present invention is administered by intravenous, cutaneous or subcutaneous injection, protein of the present invention will be in the form of a pyrogen-free, parenterally acceptable aqueous solution. The preparation of such parenterally acceptable protein solutions, having due regard to pH, isotonicity, stability, and the like, is within the skill in the art. A preferred pharmaceutical composition for intravenous, cutaneous, or subcutaneous injection should contain, in addition to protein of the present invention, an isotonic vehicle such as Sodium Chloride Injection, Ringer's Injection, Dextrose Injection, Dextrose and Sodium Chloride Injection, Lactated Ringer's Injection, or other vehicle as known in the art. The pharmaceutical composition of the present invention may also contain stabilizers, preservatives, buffers, antioxidants, or other additives known to those of skill in the art.

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The amount of protein of the present invention in the pharmaceutical composition of the present invention will depend upon the nature and severity of the condition being treated, and on the nature of prior treatments which the patient has undergone. Ultimately, the attending physician will decide the amount of protein of the present invention with

which to treat each individual patient. Initially, the attending physician will administer low doses of protein of the present invention and observe the patient's response. Larger doses of protein of the present invention may be administered until the optimal therapeutic effect is obtained for the patient, and at that point the dosage is not increased further. It is contemplated that the various pharmaceutical compositions used to practice the method of the present invention should contain about  $0.01~\mu g$  to about 100~mg (preferably about 0.1~ng to about 10~mg, more preferably about  $0.1~\mu g$  to about 1~mg) of protein of the present invention per kg body weight.

The duration of intravenous therapy using the pharmaceutical composition of the present invention will vary, depending on the severity of the disease being treated and the condition and potential idiosyncratic response of each individual patient. It is contemplated that the duration of each application of the protein of the present invention will be in the range of 12 to 24 hours of continuous intravenous administration. Ultimately the attending physician will decide on the appropriate duration of intravenous therapy using the pharmaceutical composition of the present invention.

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Protein of the invention may also be used to immunize animals to obtain polyclonal and monoclonal antibodies which specifically react with the protein. Such antibodies may be obtained using either the entire protein or fragments thereof as an immunogen. The peptide immunogens additionally may contain a cysteine residue at the carboxyl terminus, and are conjugated to a hapten such as keyhole limpet hemocyanin (KLH). Methods for synthesizing such peptides are known in the art, for example, as in R.P. Merrifield, J. Amer.Chem. Soc. 85, 2149-2154 (1963); J.L. Krstenansky, et al., FEBS Lett. 211, 10 (1987). Monoclonal antibodies binding to the protein of the invention may be useful diagnostic agents for the immunodetection of the protein. Neutralizing monoclonal antibodies binding to the protein may also be useful therapeutics for both conditions associated with the protein and also in the treatment of some forms of cancer where abnormal expression of the protein is involved. In the case of cancerous cells or leukemic cells, neutralizing monoclonal antibodies against the protein may be useful in detecting and preventing the metastatic spread of the cancerous cells, which may be mediated by the protein.

For compositions of the present invention which are useful for bone, cartilage, tendon or ligament regeneration, the therapeutic method includes administering the composition topically, systematically, or locally as an implant or device. When administered, the therapeutic composition for use in this invention is, of course, in a

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pyrogen-free, physiologically acceptable form. Further, the composition may desirably be encapsulated or injected in a viscous form for delivery to the site of bone, cartilage or tissue damage. Topical administration may be suitable for wound healing and tissue repair. Therapeutically useful agents other than a protein of the invention which may also optionally be included in the composition as described above, may alternatively or additionally, be administered simultaneously or sequentially with the composition in the methods of the invention. Preferably for bone and/or cartilage formation, the composition would include a matrix capable of delivering the protein-containing composition to the site of bone and/or cartilage damage, providing a structure for the developing bone and cartilage and optimally capable of being resorbed into the body. Such matrices may be formed of materials presently in use for other implanted medical applications.

The choice of matrix material is based on biocompatibility, biodegradability, mechanical properties, cosmetic appearance and interface properties. The particular application of the compositions will define the appropriate formulation. Potential matrices for the compositions may be biodegradable and chemically defined calcium sulfate, tricalciumphosphate, hydroxyapatite, polylactic acid, polyglycolic acid and polyanhydrides. Other potential materials are biodegradable and biologically well-defined, such as bone or dermal collagen. Further matrices are comprised of pure proteins or extracellular matrix components. Other potential matrices are nonbiodegradable and chemically defined, such as sintered hydroxapatite, bioglass, aluminates, or other ceramics. Matrices may be comprised of combinations of any of the above mentioned types of material, such as polylactic acid and hydroxyapatite or collagen and tricalciumphosphate. The bioceramics may be altered in composition, such as in calcium-aluminate-phosphate and processing to alter pore size, particle size, particle shape, and biodegradability.

Presently preferred is a 50:50 (mole weight) copolymer of lactic acid and glycolic acid in the form of porous particles having diameters ranging from 150 to 800 microns. In some applications, it will be useful to utilize a sequestering agent, such as carboxymethyl cellulose or autologous blood clot, to prevent the protein compositions from disassociating from the matrix.

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A preferred family of sequestering agents is cellulosic materials such as alkylcelluloses(including hydroxyalkylcelluloses),including methylcellulose, ethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropyl-methylcellulose, and carboxymethylcellulose,the most preferred being cationic salts of carboxymethylcellulose (CMC). Other preferred sequestering agents include hyaluronic acid, sodium alginate,

poly(ethylene glycol), polyoxyethylene oxide, carboxyvinyl polymer and poly(vinyl alcohol). The amount of sequestering agent useful herein is 0.5-20 wt%, preferably 1-10 wt% based on total formulation weight, which represents the amount necessary to prevent desorbtion of the protein from the polymer matrix and to provide appropriate handling of the composition, yet not so much that the progenitor cells are prevented from infiltrating the matrix, thereby providing the protein the opportunity to assist the osteogenic activity of the progenitor cells.

In further compositions, proteins of the invention may be combined with other agents beneficial to the treatment of the bone and/or cartilage defect, wound, or tissue in question. These agents include various growth factors such as epidermal growth factor (EGF), platelet derived growth factor (PDGF), transforming growth factors (TGF- $\alpha$  and TGF- $\beta$ ), and insulin-like growth factor (IGF).

The therapeutic compositions are also presently valuable for veterinary applications. Particularly domestic animals and thoroughbred horses, in addition to humans, are desired patients for such treatment with proteins of the present invention.

The dosage regimen of a protein-containing pharmaceutical composition to be used in tissue regeneration will be determined by the attending physician considering various factors which modify the action of the proteins, e.g., amount of tissue weight desired to be formed, the site of damage, the condition of the damaged tissue, the size of a wound, type of damaged tissue (e.g., bone), the patient's age, sex, and diet, the severity of any infection, time of administration and other clinical factors. The dosage may vary with the type of matrix used in the reconstitution and with inclusion of other proteins in the pharmaceutical composition. For example, the addition of other known growth factors, such as IGF I (insulin like growth factor I), to the final composition, may also effect the dosage. Progress can be monitored by periodic assessment of tissue/bone growth and/or repair, for example, X-rays, histomorphometric determinations and tetracycline labeling.

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Polynucleotides of the present invention can also be used for gene therapy. Such polynucleotides can be introduced either *in vivo* or *ex vivo* into cells for expression in a mammalian subject. Polynucleotides of the invention may also be administered by other known methods for introduction of nucleic acid into a cell or organism (including, without limitation, in the form of viral vectors or naked DNA).

Cells may also be cultured ex vivo in the presence of proteins of the present invention in order to proliferate or to produce a desired effect on or activity in such cells. Treated cells can then be introduced in vivo for therapeutic purposes.

Patent and literature references cited herein are incorporated by reference as if fully set forth.

# Table 3

Sel.	Species	Tissue	Call Tyma
AA	Species Human		Cell Type
AB		Kidney	19-23wks., M/F pool of 5
	Human	Fetal Lung	Fetal Lung
AC	Human	Placenta	26yrs., 1 specimen
AD	Murine	Embryo	Fetal ES cells
AE	Murine	Spleen	Adult spleen
AF	Murine	Fetal Brain	Fetal Brain
AG	Murine	Fetal Brain	Fetal Brain
AH	Murine	Fetal Thymus	Fetal Thymus
AI	Human	Blood	Adult PBMC/TH1or2
AJ	Human	Testes	10-61yrs., pool of 11
AK	Human	Kidney	19-23wks., M/F pool of 5
AL	Human	Neural	Adult Glioblastoma line TG-1
AM	Human	Kidney	19-23wks., M/F pool of 5
AN	Murine	Bone Marrow	Adult Stromal cell line FCM-4
AO	Murine	Thymus	Adult Subtr. Adult Thymus
AP	Human	Placenta	26yrs., 1 specimen
AQ	Human	Ovary	PA-1 Teratocarcinoma
AR	Human	Retina	16-75yrs., pool of 76
AS	Human	Brain	19-23wks., M/F pool of 5
AT	Human	Blood	Adult lymphocytes+dend. cells
AU	Human	Testes	10-61yrs., pool of 11
AV	Murine	Spleen	Adult spleen
AW	Human	Ovary	PA-1 Teratocarcinoma
AX	Human	Testes	10-61yrs., pool of 11
AY	Human	Retina	16-75yrs., pool of 76
AZ	Human	Colon	Caco-2 Adenocarcinoma
В	Human	Blood	PeripheralBloodMononuclearCell
BA	Human	Placenta	26yrs., 1 specimen
BB	Human	Blood	Adult PBMC/TH1or2
BC	Murine	Embryo	Fetal ES cells
BD	Human	Kidney	19-23wks., M/F pool of 5
BE	Human	Blood	Adult PBMC/TH1or2
BF	Human	Brain	19-23wks., M/F pool of 5
BG	Human	Brain	N/A
BH	Human	Ovary	PA-1 Teratocarcinoma
BI	Human	Kidney	19-23wks., M/F pool of 5
BJ	Human	Ovary	PA-1 Teratocarcinoma
BK	Human	Retina	16-75yrs., pool of 76
BL	Human	Testes	10-61yrs., pool of 11
BM	Human	Muscle	N/A
BN	Human	Placenta	26yrs., 1 specimen
BO	Human	Retina	16-75yrs., pool of 76
BP	Human	Kidney	19-23wks., M/F pool of 5
BQ	Human	Colon	Caco-2 Adenocarcinoma Caco2
24	AIGIIIAII	COIOII	Caco-2 Auchocalchionia Caco2

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DL ·	Llymon	Den:	NYA
DM	Human Human	Brain Brain	N/A
DN	Human	Brain	N/A
DO	Human	Testes	19-23wks., M/F pool of 5
DP.	Murine		10-61yrs., pool of 11
		Embryo	Fetal ES cell embryoid bodies
DQ	Human	Placenta	26yrs., 1 specimen
DR	Human	SalivaryGland	N/A
DT	Human	Brain	N/A
DU	Human	Brain	19-23wks., M/F pool of 5
DV	Human	Pineal Gland	Adult Pineal Gland
DW	Human	Brain	N/A
DX	Human	Testes	10-61yrs., pool of 11
DY	Human	Brain	N/A
DZ	Human	Testes	Adult NCCIT TeratoCA
E	Human	Blood	PeripheralBloodMononuclearCell
EA	Human	Brain	19-23wks., M/F pool of 5
EB	Human	Melanoma	Adult Melanoma
EC	Human	Brain	N/A
ED	Human	Placenta	26yrs., 1 specimen
EE	Human	Testes	10-61yrs., pool of 11
EF	Human	Liver	Adult Liver
EG	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
EH	Human	Blood	PeripheralBloodMononuclearCell
EI	Human	Brain	19-23wks., M/F pool of 5
EJ	Human	Placenta	26yrs., 1 specimen
EK	Human	Brain	19-23wks., M/F pool of 5
EL	Human	Testes	10-61yrs., pool of 11
EM	Human	Fetal Kidney2	Fetal Kidney
EN	Human	Brain	19-23wks., M/F pool of 5
EO	Human	Adrenal Gland	Adult Adrenal Gland
EP	Human	Placenta	26yrs., 1 specimen
EQ	Human	Testes	10-61yrs., pool of 11
ER	Human	Brain	19-23wks., M/F pool of 5
ES	Human	Placenta	26yrs., 1 specimen
ET	Human	Testes	10-61yrs., pool of 11
EU	Human	Kidney	Adult Kidney
EV	Human	Stomach	Adult Stomach
EW	Human	Placenta	26yrs., 1 specimen
EX	Human	Testes	10-61yrs., pool of 11
EY	Human	Brain	19-23wks., M/F pool of 5
EZ	Human	Fetal Kidney2	Fetal Kidney
FA	Human	Brain	19-23wks., M/F pool of 5
FB	Human	Placenta	26yrs., 1 specimen
FC	Human	Testes	10-61yrs., pool of 11
FD	Human	SalivaryGland	N/A
FE	Human	Brain	N/A
FF	Human	Testes	
	Liulian	103008	Adult NCCIT TeratoCA

FG	Human	Brain	NIA
FH	Human	Brain	N/A 19.23 wks M/E = 221 of 5
FI	Human	Small Intest	19-23wks., M/F pool of 5 Adult Small Intestine
FJ	Human	Lung CA	Adult Lung CA
FK	Human	Kidney	<del>-</del>
FM	Human	Brain	Adult Kidney N/A
FN	Human	Brain	
FO	Human	Brain	19-23wks., M/F pool of 5 N/A
FP	Human	Placenta	·
FQ	Human	Testes	26yrs., 1 specimen
FR	Human	Placenta	10-61yrs., pool of 11
FS	Human	Testes	26yrs., 1 specimen
FT	Chicken	Fetal Lung	10-61yrs., pool of 11
FU	Chicken	Limb Bud	Fetal Lung Fetal St. 23 Limb Bud
FV	Human	Testes	Adult NCCIT TeratoCA
FW	Human	Testes	Adult NCCIT TeratoCA  Adult NCCIT TeratoCA
FX	Human	Brain	
FY	Human	Placenta	19-23wks., M/F pool of 5
FZ	. Human	Placenta	26yrs., 1 specimen 26yrs., 1 specimen
G	Human	Blood	
GA	Human	Testes	PeripheralBloodMononuclearCell
GB	Human	Placenta	10-61 yrs., pool of 11 26 yrs., 1 specimen
GC	Human	Testes	10-61yrs., pool of 11
GD	Human	Placenta	26yrs., 1 specimen
GE	Human	Brain	N/A
GF	Human	Brain -	19-23wks., M/F pool of 5
GG	Human	Fetal Kidney2	Fetal Kidney
GH	Human	Placenta	26yrs., 1 specimen
GI	Human	Retinoblastoma	Adult Retinoblastoma Y79
GJ	Murine	Spleen	Adult Spleen
GK	Human	Fetal Kidney2	Fetal Kidney
GL	Murine	Lymph Node	Adult Lymph Node
GM	Human	Uterus	N/A
GN	Human	Blood	PeripheralBloodMononuclearCell
GO	Human	Adrenal Gland	Adult Adrenal Gland
GP	Human	Ovary	PA-1 Teratocarcinoma
GQ	Human	Pineal Gland	N/A
GR	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
GS	Human	Retina	16-75yrs., pool of 76
GT	Human	Brain	N/A
GU	Human	Fetal Kidney2	Fetal Kidney
GV	Rat	Retina	Newborn Retina
GW	Chicken	Limb Bud	Fetal St.26 Limb Bud
GX	Human	Brain	N/A
GY	Human	Testes	10-61yrs., pool of 11
GZ	Human	Brain	19-23wks., M/F pool of 5
Н	Human	Blood	PeripheralBloodMononuclearCell
		-	-F

TTA	**	7m .	A L L MCCTTTTT
HA	Human	Testes	Adult NCCIT TeratoCA
HB	Human	Fetal Kidney2	Fetal Kidney
HC	Human	Brain	19-23wks., M/F pool of 5
HD	Human	Brain	N/A
HE	Human	Testes	10-61 yrs., pool of 11
HF	Human	Brain	19-23wks., M/F pool of 5
HG	Human	Fetal Kidney2	Fetal Kidney
HH	Human	Brain	N/A
HI	Human	Testes	10-61yrs., pool of 11
HJ	Human	Brain	N/A
HK	Human	Brain	19-23wks., M/F pool of 5
HL	Human	Fetal Kidney2	Fetal Kidney
HM	Human	Testes	Adult NCCIT TeratoCA
HN	Human	Fetal Kidney2	
НО	Human	•	Fetal Kidney
		Brain	N/A
HP	Human	Brain	19-23wks., M/F pool of 5
HQ	Human	Testes	10-61yrs., pool of 11
HR	Human	Brain	N/A
HS	Human	Brain	N/A
HT	Human	Brain	19-23wks., M/F pool of 5
HU	Human	Fetal Kidney2	Fetal Kidney
HV	Human	Testes	10-61yrs., pool of 11
HW	Human	Brain	N/A
HX	Human	Brain Hippoca	Adult Brain Hippocampus
HY	Human	Trachea	Adult Trachea
HZ	Human	Brain Thalamus	Adult Brain Thalamus
I	Human	Blood	PeripheralBloodMononuclearCell
IA	Human	Thyroid	Adult Thyroid
IB	Human	Embryonal CA	Fetal NT2-D1
IC ·	Human	WER1-Rb1 line	Adult Retinoblastoma
ID	Human	Muscle	N/A
IE	Human	Brain	
IF	Human		19-23wks., M/F pool of 5 N/A
IG		Uterus	
	Human	Testes	10-61yrs., pool of 11
IH	Human	Muscle	N/A
п	Human	Brain	N/A
IJ	Human	Blood	PeripheralBloodMononuclearCell
IK	Human	Retinoblastoma	Adult Retinoblastoma Y79
${ m IL}$	Human	Retina	16-75yrs., pool of 76
IM	Human	Various	Various
IN	Human	Prostate	Adult Prostate
IO	Human	Brain	19-23wks., M/F pool of 5
IP	Human	Fetal Kidney2	Fetal Kidney
IQ	Human	Prostate	Adult Prostate
IR	Human	Brain Hippoca	Adult Brain Hippocampus
IS	Human	Trachea	Adult Trachea
IT	Human	Brain Thalamu	Adult Brain Thalamus
**	riumidii	DIAIII THAIAIIIU	Adult Diam Inglamus

## SEQUENCE LISTING

(1)	GENERAL	INFORMATION:
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- (i) APPLICANT: Jacobs, Kenneth
  McCoy, John
  LaVallie, Edward
  Racie, Lisa
  Merberg, David
  Treacy, Maurice
  Spaulding, Vikki
- (ii) TITLE OF INVENTION: SECRETED, EXPRESSED SEQUENCE TAGS
- (iii) NUMBER OF SEQUENCES: 1519
- (iv) CORRESPONDENCE ADDRESS
  - (A) ADDRESSE: Genetics Institute, Inc.
  - (B) STREET: 87 CambridgePark Drive

Agostino, Michael

- (C) CITY: Cambridge
- (D) STATE: Massachusetts
- (E) COUNTRY: U.S.A
- (F) ZIP: 02140 ·
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy Disk
  - (B) COMPUTER: IBM PC Compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
  - (C) CLASSIFICATION:
- (vii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Brown, Scott A.
  - (B) REGISTRATION NUMBER: 32,724
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: (617) 498-8224
  - (B) TELEFAX: (617) 876-5851
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGAGATGTTG	AGGTGGCTGC	TGACCTTGGG	TCTCATCTCC	TTGATTTTCT	TTATCTTCTT	60
CATTGCCGTC	CTCTCTAGGC	TGTCTTTGGC	GAGGAGGCC	CCTGCGGAAT	CGTGGTCTAT	120
ATCCCCGATA	CATATTCTGC	CTCACTGGTC	TACCTTGTTC	TCCTGCACCC	TGGTTGTCAG	180
CACCCTCCAT	CACTTCTCCC	TGCACAGGAG	GGTTGGAATA	CTGTGGTCGA	CGCCCATAGG	240

GTCTCCGCAT GTAGTAAGGT GGGAACCTTC GCCTGCGGTA GGGCCGGCGT TGTTGGGCCT GGCCTTCGGG AGCACTCTCC GATCCCTCGT TCTTTTCCCC ACTCTCACTA TTCTGGTAAT TTTGCTGGTA ATTGCGTGGA GGAGAACAGG TAGACTCGAG	-
(2) INFORMATION FOR SEQ ID NO:2:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 165 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
GAATTAGTTG CCAGCACTTT AAAAATTGGT ATAGTTCACA TAAATATTCT GAATTCAGGC TTTTGGAAAA GTTGTGGACC CAAGAATACT AGGCCCGCAT TTTCTTACGT CAACATTCTT TCCAGGATGA TGAATGGACT GTTCTCTTTG GCCCCCTATC TCGAG	60 120 165
(2) INFORMATION FOR SEQ ID NO:3:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 299 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GAATTCTAGA CCTTCCTCTC CTACTCCCTT CCTTAGGCTC CTGAACTCGT TTGCTCCTAA ATCTTGTTAA TTCTTTTTCT CTGGATTTTG GTTTCTTTTG GCTTTCCCCT TTCTCTGTCT CCAACACTCT TTCCCCATGT CTTTCTGGCT GTCTCTATGT TCCTCTTCTC TTATCCTCAA CTTTCTGCC ATTCGGGCCT CCTCCCCACC TCCCACGCCC CAGCCCCTCC CTCCTTGGTC TCCTTTTCGA TATGCCAAAC CAATTTTGGG TCGAGTGCAT TCCCTCGAG	60 120 180 240 299
(2) INFORMATION FOR SEQ ID NO:4:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 241 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
GCGATTGAAT TCTAGACCTG CCTGGATTGC CTTCTGTTGT GGTAGACAAA TCACCATTAA ATGACTAAGT TTCACTGTTT TATGTGTTAA TGATCCTTAA TAACAAAAAG TTTTAAAGTC TTAATTTCGT AAGATTATGT AAAGGTTAAG AAAGAAATTT TAAGTGAAAA TGATAAAACC AAGCAAATGT TTATTAGTTC AATTGTTTTT CTTTTTATCT TGCAGCAACG CACATCTCGA G	120 180
(2) INFORMATION FOR SEC ID NO.5:	

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GAATTCGGCC	TTCATGGCCT	AGGAAATGAC	TTTATTGTGG	TTGAATTAGT	TAAAGGGTAC	60
TTACATTACG	TGTTTGATTT	GGGAAATGGT	GCTAACCTCA	TCAAAGGAAG	CTCAAATAAA	120
CCTCTCAATG	ACAATCAGTG	GCACAACGTG	ATGATATCAA	GGGACACCAG	CAACCTCCAC	180
ACTGTAAAGA	TTGACACAAA	AATCACAACG	CAAATCACCG	CCGGAGCCAG	GAACTTAGAC	240
CTCAAGAGTG	ACTTATATAT	AGGAGGAGTA	GCTAAAGAAA	CATACAAATC	CTTACCAAAA	300
CTTGTACATG	CCAAAGAAGG	CTTTCAAGGC	TGCCTGGCAT	CAGTTGATTT	AAATGGACGG	360
CTCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:6:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 430 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GAATTCGGCC TTCAT	GGCCT ATAAAATTTA	AAAATGCTAA	GGATCTGGCC	CCACAGGCCC	60
CAAAGCTTTC ACAGA	GCTCC TCTTAGACAT	GAAGATGCCC	ATTGGCCTCC	TAGGTCCCAG	120
GAGGTGTGGG CAGGA	CTGCC CTTCCTCCGT	TCTCATTGCG	GGGCTCCTGA	AGGGGGTATC	180
TGAAAGTATG TAAAT	CTGAT GGGAGGTCTG	ATCCTCCTTT	TGCTAGCCCC	TGAACTCTGT	240
GGTGGAGTCT GGCTG	ATGGC CAGGGCCATG	TCCTAGAGGG	GACTCCCCTG	CAGGAGGCGG	300
GCTCTAAAGG GAGTG	GTGTC CCTTTAGGCC	AGGGTTCACA	GTCGGGGTGG	TCTGGAGACT	360
GCAGGACTCA GGGCC	TGGGG GTGGCATCAG	TCTGGCCAGG	CCCTGCGTCA	CTTGCACCCA	420
CTGTCTCGAG					430

- (2) INFORMATION FOR SEQ ID NO:7:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 391 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GGGTGGCTCA	TGCCTGTAAT	CCCGGCACTT	GGGTAGGCCA	GGGCAGCAGG	ATCGCTTGAG	60
CCCGGGAGTT	CGAGACAGCC	TGGGCAACAT	GGTGAGACCC	TGTCTCCATA	ATTTTTTAAA	120
AAAAATTGCC	AGGTGTGGTC	GTGTGTGCCT	GTGAGGCTGA	GGTGGGAGGC	TCGCTTGAGC	180
CCAGGGGTCA	AGGCTGCAGT	GAGCCATGAC	TGCACGCCAC	TGCACTCCAG	CGTGGGTGAC	240
AGAGTGAGAT	ACTGTATAAA	AAAAAAAAGC	TAAAACAAAA	CAAGAAGTAT	TATCTTAAGC	300
ATGTTATTTA	GAAATATGGA	GATAAATAAA	AATAACTGAA	AGTAGGTCGT	TGCTTCTGAG	360
GAGAGAAATT	GGGAGTTGGC	AAGGTCTCGA	G			391

(2) INFORMATION FOR SEQ ID NO:8:

Marian Marian Marian Marian

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GCTTTTGGAG	CTGCTAAAAT	GCCGGATTAC	CTCGGTGCCG	ATCAGCGGAA	GACCAAAGAG	60
GATGAGAAGG	ACGACAAGCC	CATCCGAGCT	CTGGATGAGG	GGGATATTGC	CTTGTTGAAA	120
ACTTATGGTC	AGAGCACTTA	CTCTAGGCAG	ATCAAGCAAG	TTGAAGATGA	CATTCAGCAA	180
CTTCTCAAGA	AAATTAATGA	GCTCACTGGT	ATTAAAGAAT	CTGACACTGG	CCTGGCCCCA	240
CCAGCACTCT	GGGATTTGGC	TGCAGATAAG	CAGACACTCC	AGAGTGAACA	GCCTTTACAG	300
GTTGCCAGGT	GTACAAAGAT	AATCAATGCT	GATTCGGAGG	ACCCACTCGA	G	351

- (2) INFORMATION FOR SEQ ID NO:9:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 354 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GTGATGTGTC	ACCCCAAGTG	CTCCACGTGC	TTGCCAGCCA	CCTGCGGCTT	GCCTGCTGAA	60
TATGCCACAC	ACTTCACCGA	GGCCTTCTGC	CGTGACAAAA	TGAACTCCCC	AGGTCTCCAG	120
ACCAAGGAGC	CCAGCAGCAG	CTTGCACCTG	GAAGGGTGGA	TGAAGGTGCC	CAGGAATAAC	180
AAACGAGGAC	AGCAAGGCTG	GGACAGGAAG	TACATTGTCC	TGGAGGGATC	AAAAGTCCTC	240
ATTTATGACA	ATGAAGCCAG	AGAAGCTGGA	CAGAGGCCGG	TGGAAGAATT	TGAGCTGTGC	300
CTTCCCGACG	GGGATGTATC	TATTCATGGT	GCCGTTGGTG	CTTCCAAACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:10:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 432 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

GAATTCGGCC	TTCATGGNCT	AGGAGGAGGA	AGAGGAGTAC	GAGGATGACG	AGGGAGGAGG	60
GGGAAGACGA	GGAGGAGGAG	GAGGCTGCGG	CAGAGGCTGC	CGCGGGGGCC	AAACATGACG	120
ATGCCCACGC	CGAGATGCCT	GATGACGCCA	AGAAGTAAGG	GGGGCAGAGA	TGGATGAAGA	180
GAAAGCCCAC	GAAGAAAAA	GCCTGGTTTT	GTTTTTCCCA	GAATATCGAT	GGACTTAAAA	240
AGGCTCAGGT	TTTTGACCAA	AATACAATGT	GAATTTATTC	TGACATTCCT	AAAATAGATT	300
AAATTAAAGC	AATTAGATCC	TGGCCAGCTC	GATTCAAATT	TGACTTTCAT	TTTGAACATA	360
ATAAATATAT	CAAAAGGTGT	TAAAGAAAAC	TGAATTAAAC	CCAAAATTAT	GTTTTCATGG	420
TCTCTCCTCG	AG					432

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 687 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

CTATTTTACA	TGCCCACCAG	CATTGTATGG	GGCTTCTCAC	TTGTCCACAT	GCTTGCCTGT	60
GTCATATTTG	ACTTAAAGCT	TATTTTGACG	GGAAACCAAT	TTGTCCTTTT	TTTGGAAAGG	120
GATGGCACCA	CAGATGTGAC	GCGGACAATG	CATTTTGGGA	CCCCTACAGC	CTACGAGAAG	180
GAATGCTTCA	CATATGTCCT	CAAGGGCCAC	ATAGCTGTGA	GTGCAGCCGT	TTTCCCGACT	240
GGAACCAAAG	GTCACCTTCT	TGACTCCTTT	GCCCGTTCAG	CTTTATGGGA	TTCAGGCCTA	300
GATTACTTGC	ACGGGACTGG	ACATGGTGTT	GGGTCTTTTT	TGAATGTCCA	TGAAGGTCCT	360
TGCGGCATCA	GTTACAAAC	ATTCTCTGAT	GAGCCCTTGG	AGGCAGGCAT	GATTGTCACT	420
GATGAGCCCG	GGTACTATGA	AGATGGGGCT	TTTGGAATTC	GCATTGAGAA	TGTTGTCCTT	480
GTGGTTCCTG	TGAAGACCAA	GTATAATTTT	AATAACCGGG	GAAGCCTGAC	CTTTGAACCT	540
CTAACATTGG	TTCCAATTCA	GACCAAAATG	ATAGATGTGG	ATTCTCTTAC	AGACAAAGAG	600
TGCGACTGGC	TCAACAATTA	CCACCTGACC	TGCAGGGATG	TGATTGGGAA	GGAATTGCAG	660
AAACAGGGCC	GCCAGGAAGC	TCTCGAG				687

- (2) INFORMATION FOR SEQ ID NO:12:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 420 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GAATTCGGCC	TTCATGGCCT	AGTCGGTGGG	TGCCTGTAGT	CCCAGCTACT	TGGGAGGCTG	60
AGGGAGGAGA	ACTGCTTGAA	CCCGGGAGGC	AGAGGTTGCA	GTGAGCCGAG	ATTGTGCCAC	120
TGTACTCCAG	CCTGGGCCAC	AAAGCAAGAA	TCTGTCTCAA	ААААААААА	AAGAAAAGAA	180
AAGAATAAAT	TTCTTTTCCC	CTTGAAGAAG	TTGATTTAGG	CACAGACTCT	GGACTCTGGA	240
TTTCCCACAA	TGTCTTATCT	AGTCAACTCA	AGTATCTGGA	CTACAATTTT	CTTGAAAGCA	300
AAGCCCATAT	ATTAATAATC	TTTACTTGTA	TATAAATATT	CAATAAATCA	TTAAGTAAAT	360
GTGTAGAAGA	ATTTTATGCT	CAATAAGATC	CACCCGATCA	TGCATTTGAA	AATTCTCGAG	420

- (2) INFORMATION FOR SEQ ID NO:13:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 379 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

60	CATTTTGGGG	GTCAACATCC	CTGCTTTTCT	AGCACATACT	TTCATGGCCT	GAATTCGGCC
120	CCAGTTGTCC	ACTTGTTCTC	CAGTTTTTTA	TCCTGCACCC	TCATATTTAT	AAAGGAAAAG
180	ATTCTCCTTT	TTATATATAT	GGAAAAAAA	AAGGGAAATT	TGGGTGTAAG	CCCTCTTCTC
240	GTTACACAGC	ACCCTAACTT	CAGCAAGTCC	AGAGGAGAGA	CCCCTACTCC	TAATGGTGGG

ACATACCACA	GGTTCTGGAA	TTCTCATCTT	CGAACCTAGA	GAAATAGGTG	CTATAAACAG	300
GGAATTAAGC	AAAATGCTGG	ATGCTATAGA	TCTTTTAATT	GTCTTAATTT	TTTTTCTATT	360
ATTAAACAAC	AGGCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:14:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 528 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GTTCATGGCC	TACGGAAAGT	CAGCATGGAT	AACAGACTGA	TGGAACTCTT	TCCTGCCAAT	60
AAGCAAAGTG	TTGAACACTT	CACAAAATAT	TTTACTGAGG	CAGGCTTGAA	AGAGCTTTCA	120
GAATATGTTC	GGAATCAGCA	AACCATCGGA	GCTCGTAAGG	AGCTCCAGAA	AGAACTTCAA	180
GAACAGATGT	CCCGTGGTGA	TCCATTTAAG	GATATAATTT	TATATGTCTA	GGAGGAGATG	240
AAAAAAAACA	ACATCCCAGA	GCCAGTTGTC	ATCGGAATAG	TCTGGTCAAG	TGTAATGAGC	300
ACTGTGGAAT	GGAACAAAAA	AGAGGAGCTT	GTAGCAGAGC	AAGCCATCAA	GCACTTGAAG	360
CAATACAGCC	CTCTACTTGC	TGCCTTTACT	ACTCAAGGTC	AGTCTGAGCT	GACTCTGTTA	420
CTGAAGATTC	AGGAGTATTG	CTATGACAAC	ATTCATTTCA	TGAAAGCCTT	CCAGAAAATA	480
GTGGTGCTTT	TTTATAAAGC	TGAAGTCCTG	AGCGAGGATG	CCCTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:15:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 466 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

GAATTCGGCC	TTCATGGCCT	AGCCCAGGCC	ACGCTACACT	CTGCCCACAC	TGGTGAGCAG	60
GAGGTCTTCC	CACGCCCTGT	CATTAGGCTG	CATTTACTCT	TGCTAAATAA	AAGTGGGAGT	120
GGGGCGTGCG	CGTTATCCAT	GTATTGCCTT	TCAGCTCTAG	ATCCCCCTCC	CCTGCCTGCT	180
CTGCAGTCGT	GGGTGGGGCC	CGTGCGCCGT	TTCTCCTTGG	TAGCGTGCAC	GGTGTTGAAC	240
TGGGACACTG	GGGAGAAAGG	GGCTTTCATG	TCGTTTCCTT	CCTGCTCCTG	CTGCACAGCT	300
GCCAGGAGTG	CTCTGCCTGG	AGTCTGCAGA	CCTCAGAGAG	GTCCCAGCAC	TGGCTGTGGC	360
CTTTCAGGTG	TAGGCAGGTG	GGCTCTGCTT	CCCGATTCCC	TGTGAGCGCC	CACCCTCTCG	420
AAAGAATTTT	CTGCTTGCCC	TGTGACTGTG	CAGACTCTGG	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:16:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 288 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTCGGCC	TTCATGGCCT	AGCGTGATCC	TGGAACGTGC	TCTAGTTCGA	GAGAGTGAGG	60
GCTTTGAGGA	GCATGTACCA	TCTGATAACT	CTTGAAGATA	CAGAGAGAAA	TCCATCTTTT	120
CCCAGGTCTC	CTTCACTGAA	AACAAAAATC	TACTTACATA	CACTGTCACC	TTAGCATCAG	180
AGTCGGATTA	ATGAACTGCG	GAACAAGAGG	TTGTGAGAAT	CTAAGATGGA	ACCTTTCTTT	240
CTTTCTTTCT	TTTTTTTTAA	ATTTTGTATT	TTCCATCCAA	CACTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:17:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 484 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GAATTCGGCC	TTCATGGCCT	AGGGCTCTGC	TTATAAACTT	CAAAGTTACA	CTGAAGGATA	60
CGGTAAAAAC	ACCAGTTTAG	TAACCATTTT	TATGATTTGG	AATACCATGA	TGGGAACATC	120
TATACTAAGC	ATTCCTTGGG	GCATAAAACA	GGCTGGATTT	ACTACTGGAA	TGTGTGTCAT	180
CATACTGATG	GGCCTTTTAA	CACTTTATTG	CTGCTACAGA	GTAGTGAAAT	CACGGACTAT	240
GATGTTTTCA	TTGGATACCA	CTACCTGGGA	ATATCCAGAT	GTCTGCAGAC	ATTATTTCGG	300
CTCCTTTGGG	CAGTGGTCGA	GTCTCCTCTT	CTCCTTGGTG	TCTCTCATTG	GAGCAATGAT	360
AGTTTATTGG	GTGCTTATGT	CAAATTTTCT	TTTTAATACT	GGAAAGTTTA	TTTTAATTT	420
TATTCATCAC	ATTAATGACA	CAGACACTAT	ACTGAGTACC	AATAATAGCA	ACCCTGGTCT	480
CGAG						484

- (2) INFORMATION FOR SEQ ID NO:18:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 519 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

GAATTGGCCT	TCATGGCCTA	GGAGATATAC	CTAATGCTAG	ATGATGAGTT	AGTGGGTGCA	60
GCGCACCAGC	GTGGCACATG	TATACATATG	TAACTAACCT	GCACAATGTG	CACATGTACC	120
CTAAAACTTA	AAGTATATAT	АААААААА	GACNTCGCTA	GTGAGCACGC	TGTATACGAC	180
ATCGCTAATG	AGGACACCAT	ACAAGGCATC	GCTAACGATG	ACGCTGTACA	CAACATCACT	240
AATGATGACA	CCGTATAAGA	CATCGCTAAT	TATGACGCTG	TATAÇGACAT	CGCTAATGAC .	300
ACCGTACGAG	GCACGCTAAC	AAGGATGCTG	TACACAACAT	CGCTAATGAG	GACAGTGTAC	360
AAGCCATCGC	TAATGAGGAC	ACTGTATATG	ACATTGCTAA	CGAGGACACT	GTACAAGGCA	420
TTGCTAACGA	GGACGCTGTA	CACAACATCG	CTAATGACAC	CATATAAGAC	ATCACCAATG	480
AGGATGCTGT	ATATGACATC	GCTAATAACA	CCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:19:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 342 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

(	CAGCTCTCA	TCCTCGTCTC	CCCAACACCA	TAACGTCCTC	ATCCCGCCTC	CAACCCACAC	60
(	CAGGCCGAAG	CCCTCAGAGA	GTGTTTTCAT	CAGGAACCAC	TCTCGAACCT	GAAGGTTGAC	120
ľ	TTAGCGTTT	AGCAACCCAG	GGCGGTGTGT	GTGTTTCCCG	TTTTGTTTTC	TGAGTGGTAG	180
C	CAGTGATCAC	CGTAATTCCA	TGTAGCCATG	TGCTAGCAGA	ACCCCTGTGT	CCTCACCGTG	240
C	CCCGTGTGA	CCCCAGCCGA	CGAGTGCCCG	GCGGAGTCCC	CGCTGCCTTC	CCATGGTCCA	300
G	TGAGCTGCC	AGGGCATCAC	ATGACTCTCA	GCTGGGCTCG	AG		342

- (2) INFORMATION FOR SEQ ID NO:20:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 580 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GAATTCGGCC TTCATGG	CCT AGAGCAGCTC	TGAGGTAGAA	ATTACAACGA	TGAAAAGAGC	60
ACAACGTACA AAACCAA	GAA AGAGTCTGTT	GTGTGAAGGG	TCATTCGATG	AAGAAGCTTC	120
TGCACAGTCC TTTCAGG	AAG TGTTAAGTCA	ATGGAGAACC	GGAAATCATG	ATGACAACAA	180
GAAACAGAAT TTACATG	CAG CAGTAAAAGA	CTCATTGGAA	GAATGCGAAG	TACAGACTAA	240
TCTGAAAATT TGGAGAG	AAC CACTTAATAT	TGĄACTTAAA	GAAGACATTC	TATCCTATAT	300
GGAAAAATTA TGGCTTA	AAA AACACAGGAG	AACTCCACAA	GAGCAACTTT	TTAAAATGCT	360
ACCAGATACG TTCCCAC	ATC CACATGAAAC	CACTGGTGAT	GCACAGTGTT	CTCAAAATGA	420
AAACGATGAA GATAGTG	ATG GTGAGGAGAC	CAAAGTACAA	CACACAGCTC	TTTTATTGCC	480
AGTAGAAACA TTAAACA	TAG AGAGACCTGA	ACCATCTCTA	AAGATAGTCG	AACTGGATGA	540
TACTTATGAA GAGGAAT	TTG AAGAAGCAGA	ACATCTCGAG			580

- (2) INFORMATION FOR SEQ ID NO:21:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 301 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GAATTCGGCC	TTCATGGCCT	AGAAAGATCT	AATTATCATG	GACCTGCGAC	AGTTTCTTAT	60
GTGCCTGTCC	CTGTGCACAG	CCTTTGCCTT	GAGCAAACCC	ACAGAAAAGA	AGGACCGTGT	120
ACATCATGAG	CCTCAGCTCA	GTGACAAGGT	TCACAATGAT	GCTCAGAGTT	TTGATTATGA	180
CCATGATGCC	TTCTTGGGTG	CTGAAGAAGC	AAAGACCTTT	GATCAGTTGA	CACCAGAAGA	240
GAGCAAGGAA	AGGTTTGGAA	AGATTGTAAG	TAAAATAGAT	GGCGACAAGG	ATCGGCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:22:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 332 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GAATTCGGCC T	TCATGGCCT	AAAAAAAGGA	TGGTGTGTTG	AGACCAGAAG	CAGCAGCAGT	60
CCTCGACATC A	ACTACAACT	TTCCTTCGCA	CAGTGCATAC	CCTCTGATAT	ACTGAACCCA	120
ACGCCTATCC T	CCAGCCCCC	TAAGAACTAG	AGAGGGAGCC	TCACAACATT	CCAATTTAAT	180
CCTTCAGAAA A	TTCATTACT	CTTCAAAGTT	GTCTGTGGTT	TTGTGACAAC	GATATGACTA	240
GGTGCAAAAT G	GCTTGCAAC	TAATTAACAA	ACATAGAAGC	ATCCAACAAA	CATATACGTG	300
CACAATCTGA G	GATTTAGGG	ATGAAGCTCG	AG			332

- (2) INFORMATION FOR SEQ ID NO:23:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 239 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GAATTCGGCC TTCATG	GCCT ACCAGCCTGG	GCGACAGAGC	AAGACTCAGT	CTCAAAACAA	60
AACAAAACAA AACAAA	AAGA GAAGGCTATT	ATTAACATTC	GAGATAATGT	GCCAGACTGC	120
TTCCATGTAT TTTCAT	TATT CTGTCCCAAA	TCTGGTGAAG	TGGGTATCTG	CACAGCTTTC	1.80
TCTAGATTGA ACAACT	AGTA AGGGGGCTGG	CCCTGGAGAA	AGTTACCTCC	TGCCTCGAG	239

- (2) INFORMATION FOR SEQ ID NO:24:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 238 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

GAATTCGGCC	TTCATGGCCT	ACTTTTATAT	TGTTATTTTT	GTAAAGCATC	TTTTCTTCAA	60
TTCTTGTTGG	CATTCTGGGC	CAAAATATTT	CAGGTTGGTT	CGGTGTGGAG	TTAAGAAAAG	120
CAGGCGTTTT	AGTGGAGAAA	TGGGGAACAG	CATCAAGAAA	GGCTTTTTTC	CTTTTTTCTT	180
ТТТТТТТТТТТТ	AGACAGAGTC	<b>ההמכורות הור</b>	ACCCAGGCTG	CACTCCAATC	CTCTCCAC	238

- (2) INFORMATION FOR SEQ ID NO:25:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 231 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAATTCGGCC TTCATGGCCT AGATGGATTT CTTAATTGAA GTACTTTTAT AATCACAGTG

ACTGAACAAA ATATTTCAA AGACATTTGT CATTCCTTAA AGCCAAGATT TTAAAGACTA ATGTCCTTCC TGAGGGTTAC TTTACTATAC TGTGTATGGT GTATAGCCAC AGAAAGTCAG TCTGATAAAT TTTCAATGTG TAAGTGTGAT GCATTCAACC CAGATCTCGA G	
(2) INFORMATION FOR SEQ ID NO:26:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 307 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
GAATTCGGCC TCATGGCCT ACACAGAGTA TATTTATAGC TATCTCAGGG TCCTTGTCCA ATTGCTTGT TCATTCTTC ATCTGCTTCT ACTGATTTT TCTGCTTCTG TTTACTCTTC ATTTTGGACC TATTTTCCCT TATTTGGTGC TTTGCATACA ATTTGTTGG ACTGGATCTT TGCTAGTCCT TTAAATGTTT TTAAGCTTTG TTTTGGGATG CAGTTAGGTG ACTCAGAAAC AATCAGAAAC AATTTGATCC TTTTATGTCT CTTAAGCTTT GTTATAGGCA GGACCAGAGC	120 180 240
(2) INFORMATION FOR SEQ ID NO:27:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 253 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
GAATTCGGCC TTCATGGCT ACAATAATAG CCTCCCACCT GGTCTTCCTT CTTCAGTCTC TTCAGTCTTT CCCCAAAGCTC TTGAATCCTA CATGAACCCA TGCCTCGGTC AAAATATTAC AGGCTGCAGC CAATCTTCAA GTGGCATACA GGCCAAACAT CCATTTATAA TATGGTTGGA ATTCCTAACA CATTTTATCA TAGATCTAAT GCCATACAAT AGGTGGAGGT TAGATCCTCA CGCAACTCTC GAG	120 180
(2) INFORMATION FOR SEQ ID NO:28:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 254 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
GAATTCGGCC TTCATGGCCT ACAGAGAACT TGTGTTCCGG TTTATTGAAG TTCAGACACT TCTCCTCGCT CCATTCTGTC CACATTTGTG TGAGCACACT TGGACACTCC TGGGAAAGCC TGACTCAATT ATGAATGCTT CATGGCCTGT GGCAGGTCCT GTTAATGAAG TTTTAATACC CTCCTCACAG TATCTTATGG AAGTAACACA TGACCTTAGA CTACGACTCA AGAACTATAC GATGCCAGCT CGAG	C 120 A 180

- (2) INFORMATION FOR SEQ ID NO:29:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 211 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

GAATTCGGCC	TTCATGGCCT	ACGAGAAGGA	GTGGAAGAGT	AAGCAGACTA	GGAAAATACA	60
GTACAACCAT	CAGGCAGCAT	TACAGACCCA	CTTAAGGTTT	GTGGCCATGT	GTGGTTGTGT	120
GGTTTTTTT	CTGGCCATGC	TCAGTTACAT	AGGGGCAAGT	GCAAAAAAA	CCCCAGAGTT	180
TGTTTTAACT	AGAGCTCTGG	TTTTGCCAAA	C			211

- (2) INFORMATION FOR SEQ ID NO:30:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 521 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

GAATTCGGCC	TTCATGGCCT	AGGATCAGGT	TCGTCCTTTA	GTGTTGTGTA	TGGTTATCAT	60
TTGTTTTGAG	GTTAGTTTGA	TTAGTCATTG	TTGGGTGGTG	ATTAGTCGGT	TGTTGATGAG	120
ATATTTGGAG	$\tt GTGGGGATCA$	ATATAGGGGG	AAATAGAATG	ATCAGTACTG	CGGCGGGTAG	180
GCCTAGGATT	GTGGGGGCAA	TGAATGAAGC	GAACAGATTT	TCGTTCATTT	TGGTTCTCAG	240
GGTTTGTTAT	AATTTTTTAT	TTTTATGGGC	TTTGGTGAGG	GAAGTAGGTG	GTGGAGCACA	300
GGCACTGCAG	GTCAATGGAG	GTGGAGTACA	GGGACTACAG	GTCAATGGAG	GTGGAGCACA	360
GGGACTAAAG	GTCAATGGAG	GTGGGGCACA	GGGACTACAC	GTCAGTGGAG	GTGGAGTCAC	420
AGGGACTACA	GGTCACTGGA	GGTGGAGCAC	AGAGACTACA	GGTCAGTGGA	GGTGGGGCAC	480
AGAGACTACA	GGTCAGTGGA	GGTGGAGCAC	AGAGACCACA	, <b>G</b>		521

- (2) INFORMATION FOR SEQ ID NO:31:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 238 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GAATTCGGCC	TTCATGGCCT	AAAATTTCCT	CTAAGTACTG	ATTTAGCTGC	ATTGTATAAG	60
TATATGCTTC	CATTTTCATT	CATTTCCAAA	TATTTTCTAA	TTTCCTTTGC	AATTTTTTTT	120
TCAGGAATTC	GGGCCTTGCT	GTGTTGCCCA	GGCTGGAGAG	CAGTGCCACT	ATCACAGCTC	180
ACTATAAACT	CAAACTCCTG	GGCTCAAGCA	ACCCTCCCAC	CTCCCAACTC	CCCTCGAC	238

- (2) INFORMATION FOR SEQ ID NO:32:
  - (i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 257 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
GGTTTCTTAA AAAAAAAAA AAAAGGAATT TGATCCAGAG CAATTTTCT CAATTAAAAT TTGTGATTAC ATTTCTGAGT TTCCATGGCA GAGTTGTGAG TGGGGCTGTG ATATAATTTA ACTTCTCCTA AATTGCTGAC ACCGATAACC CTATAAATTA ACAGATGGCG GAGGGAAATC TCCTGGCTTC TTCCTGGCTA GTTTTTTTA ATGGTCTGAT TTTTGTAATA GGGGTTTTGA GTCCCAGCCG ACTCGAG	60 120 180 240 257
(2) INFORMATION FOR SEQ ID NO:33:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 251 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
GAATTCGGCC TTCATGGCCT AAAGACTTAC GTTATATTTT CATATACTCC TTCCCACTCT TAGTGTGTTG TCAATATACA TTTTGTTTTA CATGTAAAAA CACCACAGTA TATTGTTCTT AATTTTGCTT TTAATAGTAA ACTGTCTTAT AACAAATTAT GAAAATGGAA AAAAACATGT CTTTCTTATT TGCCCTCATA TTTATCCATT TAGGCACTCT TCCTTTTTCC CTTTCATTCC AGGTTCTCGA G	60 120 180 240 251
(2) INFORMATION FOR SEQ ID NO:34:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 245 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
GAATTCGGCC TTCATGGCCT ACTAACATTT ATGAAAATTA TTTGTAAATA AAATAAGAGG CATTGAGATT AAAATTGGAG ATAAAGTTGC TGATGTGTTG TTTTCCTGAA GTATTTTTT TCTTAATTCT GATCTTTGTT TCCCAATACA ATCACCTCA CACCCTTGCA GTTCAGTTTC CTGACGACTC TCTAGTGTGC CAGATCTGTG TTTCTATGTC AGTGATCTGT TCCCCATCTC TCGAG	120 180 240 245
(2) INFORMATION FOR SEQ ID NO:35:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 383 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GAATTCGCTT CATGGCCTAC	CGAGAAATGG	GTGTGATTGC	TGCCATGAGA	GATGGTTTTG	60
GTTTCATCAA GTGTGTGGAT	CGTGATGTTC	GTATGTTCTT	CCACTTCAGT	GAAATTCTGG	120
ATGGGAACCA GCTCCATATT	GCAGATGAAG	TAGAGTTTAC	TGTGGTTCCT	GATATGCTCT	180
CTGCTCAAAG AAATCATGCT	ATTAGGATTA	AAAAACTTCC	CAAGGGCACG	GTTTCATTTC	240
ATTCCCATTC AGATCACCGT	TTTCTGGGCA	CGGTAGAAAA	AGAAGCCACT	TTTTCCAATC	300
CTAAAACCAC TAGCCCAAAT	AAAGGCAAAG	AGAAGGAGGC	TGAGGATGGC	ATTATTGCTT	360
ATGATGACTG TGGGGGTCTC	GAG				383

- (2) INFORMATION FOR SEQ ID NO:36:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 133 base pairs
    - (B) T"PE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

GAATTCGGCC	TTCATGGCCT	ACTGCCGCTC	CTGGTGCTGC	TTGTGTGCTC	GTTTGGTGCG	60
GACCTGGTAC	CTCTTTTGTG	AAGCGGCAGC	TGAGGAGACT	CCGGCGCTCG	CCATGGCCGA	120
CGAAAAGCTC	GAG					133

- (2) INFORMATION FOR SEQ ID NO:37:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 276 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GAATTCGGCC	TTCATGGCCT	AAGGTAGTCT	AGGCTCATCT	TCATGAGGGA	ACTGAGGTCT	60
TGGGGGGTGG	GGGTTACCCA	AATAGGTTCA	CAGAAGAACC	AGAAATAAAA	CCTGCCTTTC	120
TAGACTGTAA	GTCTTGTGAT	TGTCATCTAA	ATGGTTGTCT	CTATACAGCA	ACTCATCTCT	180
AGAACTGAAA	ATAAGTTTAA	ATCCCTCCTC	CATCCCCAAT	AATTCAAGCT	GCATTTCAGA	240
GAAAACCAGG	ACTTTGGAAT	CAGACAGCAA	CTCGAG	•		276

- (2) INFORMATION FOR SEQ ID NO:38:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 336 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

erini Tarahari Tarahari

GAATTTGTGC TCTTAGAGTA GGAGTTGGAA CTATAGGACT TGAAGGCAAG AGCAGGTATC TTATCAAGGA TCTACTCACT CAGTTTCCCT AAAGCTCTCT CTCCAGATCG GATTCAACCG CACATCATGA CAGATGTTCC GGCTACATTT ACCCAGGCTG AGTGTAATGG GGATAAACCA CCTGAAAACG GTCAACAAAC AATCACTAAA ATCAGTGAGG AATTGACTGA TGTGGACAGC CCCCTGCCAC ACTACAGGGT AGAACCCAGT CTGGAAGGTG CACTCACCAA AGGAAGTCAG GAGGAAAGAA GAAAATTACA AGGGAACAGA CTCGAG	60 120 180 240 300 336						
(2) INFORMATION FOR SEQ ID NO:39:							
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 385 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear							
(ii) MOLECULE TYPE: cDNA							
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:							
GAATTCGGCC TTCATGGCCT AGTCGGAGAA GGACATCCAG GATCTGAAGT TTGGGGTCGA	60						
GCAGGATGTT GATATGGTGT TTGCGTCATT CATCCGCAAG GCATCTGATG TCCATGAAGT	120						
TAGGAAGGTC CTGGGAGAGA AGGGAAAGAA CATCAAGATT ATCAGCAAAA TCGAGAATCA	180						
TGAGGGGGTT CGGAGGTTTG ATGAAATCCT GGAGGCCAGT GATGGGATCA TGGTGGCTCG	240						
TGGTGATCTA GGCATTGAGA TTCCTGCAGA GAAGGTCTTC CTTGCTCAGA AGATGATGAT	300						
TGGACGGTGC AACCGAGCTG GGAAGCCTGT CATCTGTGCT ACTCAGATGC TGGAGAGCAT	360						
GATCAAGAAG CCCCGCCCCA CTCGA	385						
(2) INFORMATION FOR SEQ ID NO:40:							
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 245 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear							
(ii) MOLECULE TYPE: cDNA							
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:							
GAATTCGGCC TTGCTAAAAA AAAAAAAAA GAGGCAAGTA ATGTAATATC CCCCACCTTT GGTTTTCTTA TCTATAAATA CTGATTAAAA AAAAAAGTAC ACTGTCTGCC TTATAAGCTA AAATGAGTGA ATACAGGCAA AATGCCTTAC ATTTTACTTT ACATTTACTA AGCACCCAGA AAATGTTAAC TATGATGACA ATTATGATGA TGATGATATT GATATTTCA AGGAGGGCGC TCGAG	60 120 180 240 245						
(2) INFORMATION FOR SEQ ID NO:41:							
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 247 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear							
(ii) MOLECULE TYPE: cDNA							
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:							
GAATTCGGCC TTCATGGCCT AAATAAAGAT GATTTTTGTG CTTAGCAGTT TAAGGTATAT GGCTGCATAT GCAAAACTCT TTCCCAATTC AGTCGCTACT TTTACTTCTG CCCTTTCTAT	60 120						

CCATCGTCTT CATTTTGTGT GTACAGTGCT GTGTGTAAGC TTATCAGTGT GTTTTTTAT TTGTATCAGT CATGAAAGTC CTGTTAGGTA TCCAGAGTTC TATTTATCTA GCTGTACAGA TCTCGAG	180 240 247					
(2) INFORMATION FOR SEQ ID NO:42:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 106 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						
(ii) MOLECULE TYPE: cDNA						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:						
GGATATGGTA ACTGAGAACC ATTTTCTAGT TGAGATAACT CATGTACAGG GGGGGTCACA TGACTCAACA ACACACAGAG CACAGAAGAG ACCCAACAAT CTCGAG	60 106					
(2) INFORMATION FOR SEQ ID NO:43:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 237 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						
(ii) MOLECULE TYPE: cDNA						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:						
GCGTATTTCC AAGTGTATGT ATTTCTAAAG ATAGATTTT TAAAAACAAA AAATCTTAAT TTAGATGATA AGCGATTTTT ACCTTTTTTT TTTTTCAAA GCAACTTGAT CCTGTAAGTT TTGGCATCTT AAGTGGAAAT GTTCATGCAG TTTTGCTGGA TCTTCGCTAT GGCAGTAAAA TGCAATACAG CACTGTGGTT AAGAGTGCAG AACGGAGTCA GTCAGCCTGA ACTCGAG	60 120 180 237					
(2) INFORMATION FOR SEQ ID NO:44:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 476 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						
(ii) MOLECULE TYPE: cDNA						
(xí) SEQUENCE DESCRIPTION: SEQ ID NO:44:						
GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT AGGGAGTNGG TGTGTCTGTG CATTTATTG GATCATGGAA GGTTGTAGAT AATGGAGGAC ACATATTTGG GGAGTTTTGA GAGGATGTG ATGTGTGTGT	60 120 180 240 300 360 420 476					

(2) INFORMATION FOR SEQ ID NO:45:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 358 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

GAATTCGGCC	TTCATGGCCT	AGGCAAACTC	TGCTGGACTT	AACTTCATCA	ATGTAGTGGG	60
CTCTGTTTGT	GGGGCCCAGG	CTTTGATGAG	TGGTTCAAAC	CCCATGCTGG	GCTGTAACAC	120
TGGTGCCATA	ACTCCTGCAG	GAATAAACCT	GAGCGGCCTT	${\tt CTACCCTCAG}$	GAGGTCTGCT	180
ACCAAATGCA	CTGCCCAGTG	CAATGCAGGC	AGCTTCTCAA	${\tt GCAGGTGTTC}$	CATTTGGTTT	240
AAAAAATACT	TCAAGTCTCA	GGCCCTTAAA	TCTACTCCAG	$\mathtt{CTTCCAGGTG}$	GTTCACTTAT	300
TTTTAACACT	CTGCAGCAGC	AGCAACAGCA	GCTCTCCCAG	TTTACACCAC	AACTCGAG	358

- (2) INFORMATION FOR SEQ ID NO:46:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 353 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

GAATTCGGCC	TTCATGGCCT	AATCATTTTG	ACTTTCAGTG	CTTTCAATGA	CCAGTGGCCT	60
CCAGGGATAA	AGCAACTGCT	TGGTTTGCAG	GGCGTCCTCT	GCGCTGCTGA	GCCATCAGCC	120
TCCAATACGC	CAATGCCCAT	AGATGCTAGT	TACAGCCCTG	CTTCCTCCTA	CATAGGGTTC	180
TGTCATCACT	GAGTCTCACC	ATTTCCCTCT	CCCCAGTGTC	TTTATTATGT	GACACACACA	240
CACGGCACTA	TGTTTAAAAA	AGCGTGCTCA	CTGGCAACCT	CTTGGCGTTG	TGTGTTCATT	300
CTGTGTTTTG	TATTGGTGGT	ATCTTGGGGT	CGACCGAAAG	AGTCAACCTC	GAG	353

- (2) INFORMATION FOR SEQ ID NO:47:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 456 base pairs
    - (B). TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

GAATTCGGCC	TTCATGGCCT	AGGGAGCTAC	CAGATGCTGA	AGAAAGGGCC	CTGGCAGACT	60
GGGTTCAAAC	TCAGCCATTG	TCAGCTTGGT	AACCTTGACC	AAGTGTCTTC	CCCTCTGTGA	120
GCCTCAGTTT	TCTCAATAGT	AAGAGGGGAT	AACACACTTA	CCTCTCATAG	CTGTGGACAT	180
GGAGGTGAAA	GTGCCGCATA	CACTGTAAAG	TGTTATATAC	GTGTAAGAGA	AAAAATCGGG	240
CCAGAGGCTG	GGCTTGTGTT	AATTGATTCA	GGAAATTCAC	CAGAGGCCCC	CTAGATGCAA	300
CGTCCTTTGG	GTGTCTGGCA	GTGGGCACAA	AGATGAACAA	AACAGTGCCC	CACCCTCACC	360
CCGTCAACCG	TCAGTGCAGC	AGTGGGCTGG	GTGCTTGCGT	CCCACAGTGA	GGAAGGCAGA	420
AGGGGTCCCT	GCCCTCAAAG	GAGGACGATA	CTCGAG			456

(2) INFORMATION FOR SEQ ID NO:48:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 509 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

GAATTCGGCC	TTCATGGCCT	AGCTGCCCCG	CAGCACTTAC	CGGAGCGACC	ATGAGGGTGA	60
CGATTTGAAG	CACACACAGG	CTTCCCGCCA	CCTCCTTTAA	ACCGCCGCTG	GCTTGCCAGG	120
GACAGACGGC	GCGGTTGGCT	CCCCAAAATT	CCGACTGATA	CGCGCCTCGG	CGAGCGAAAG	180
CAAACGCGGG	ATACTCTCGC	GTTCCTGATT	GGCTGCAGTT	GGAATTGATC	ACACCTTTTC	240
AGTTGTACTT	CAATCCTGAA	TTAATCTTTA	AACACTTTCA	AATATGGAGA	TTAATCACCA	300
ACTTCTTATT	TTTTGGGCCA	GTTGGATTCA	ATTTTTTATT	TAACATGATT	TTTCTATATC	360
GTTACTGTCG	AATGCTAGAA	GAAGGCTCTT	TCCGAGGTCG	GACAGCAGAC	TTTGTATTTA	420
TGTTCCTTTT	TGGTGGATTC	TTAATGACCC	TTTTTGGTCT	GTTTGTGAGC	TTAGTTTTCT	480
TGGGCCAGGC	CTTTACAATA	ATGCTCGAG				509

- (2) INFORMATION FOR SEQ ID NO:49:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 467 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

GAATTCGGCC	TTCATGGCCT	AAAGCAAGTG	ATTTTCTTTT	TTTTAAAGAC	AGGGTCTCAC	60
TTGGTCACCC	AGGCTGGAGT	ACAGTGACAT	CATCACGGCT	CACTGCAACC	TTCGCCTCTT	120
GGGCTCAAGT	GATTCCCCCA	TCCCCCACCC	CCCTTCTCAC	CCCCAGATTG	GACTATAGGC	180
GTGTACCACC	ACGCCTGGCA	GAGACCGGGT	TTTGCCGTTG	CCCAAGCTGA	TCTCGAACTC	240
CTGAGCTCAA	GCGATCTGCC	CGTCTCAGCC	TCCCCTAAGC	AAGCATTTTT	AAGTTTCTAT	300
GCTGTTTAAT	TTTTTTTAAC	TGATTAATTT	ATTTGCATTG	TGTGGTCATG	GAATATGTTT	360
TTATGATATT	GGTTGTTTGA	GATTTGGTGA	GTCTTTCTTT	GTAACCTAGT	TAAACCATTC	420
CATATCTTTT	TAAAAGGATG	TATATTCCTT	ATCTGTTAGG	GCTCGAG		467

- (2) INFORMATION FOR SEQ ID NO:50:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 168 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

${\tt GAATTCGGCC}$	TTCATGGCAG	AGTGGAAGGG	GTTGTAAATA	TTAGGAGAGA	GATAATTCTT	60
AGTGCATTTC	TCTGAGGATG	AAGCATGAGA	TGAATCCATG	GCACGAATGG	AACAGCTGGG	120
GAAAGCAGGT	CAGAATGGAT	ATGGATATAA	ATACTGTGAG	TTCTCGAG		168

(2) INFORMATION FOR SEQ ID NO:51:

(i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 228 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	
GAAGTAAATT ATTACGATTT CCTTAGGTGG TTAATAAATT ACCATTATTT TCTCTATTTT ACAGATCACG AAATGATAAG TAACTTACCG AAAGTTACAT TATTTAAGTT AATCAAATGT TTATTGATTG CCAGACTTTT TTCTAGGCTT AAGCAAATGT TGGAAAATAC TTCTCTGAGC TTTCAAAAAAT GTTATTCTA CTTGTCAGTG CTGCAGGAGT CTCTCGAG	120 180 228
(2) INFORMATION FOR SEQ ID NO:52:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 247 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
GCAGAGTCAA TAGATACTTT AAATTGAAGT AAAGAATTAA AAAAGGAAGT GGATAGTTTG GGTATTAGTT TAGCTAGAAA TACAAAGAAA CTTGACTTCT AGGCAGTAC AAATTCAAGC CTTCCACAAA CAAACAGTTG AGAGTATGTT TATCTTCTTA AAATGTGTGG GTGCCTTCCC ACCACTTCAC CTGCTCCTCA CTGGTGCTTT GTCCCCTCCC TACTACCATT CCTGTCCCGG TCTCGAG	60 120 180 240 247
(2) INFORMATION FOR SEQ ID NO:53:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 235 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	
GGCCAAAACA AAGCTTATAA AGGTTCCTGC TCCCAACGTA ATTACCTCCA ATCGGCATTT AAAGACATCC GCATTGCTTA CAGCACATCC TAGCCTCATG CTTGCCCAAG GATGGACTCG AAATGAACTA TTTCCAGAGC GACTTATTCA GGCATTCTGT GGAGCCTCCG TTGCCCTGTC CATCACCGGA GCTTTTGTAA TTGCAGCTAT GCCATTGGCC TCCGGCAACC TCGAG	120 180 235
(2) INFORMATION FOR SEQ ID NO:54:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 231 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

GAATTCGCCT TCGTGGCCTA AAAAGAAAAA ATCTAAGGTA GATTGTGCCT TTTGTGCCTT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

TCCTCTGCTC AAGACCTTTC AGTGGCTTCC CACTTCACTC AGTAAAAGGC	AAAAAGTCCT	120
TTTAATAACC TACAAGGCAT TATGTTACCC ACATTGTCCC TGCTCCCCTA	CATTGTACTC	180
AAGTCTATGA TCTTTTTACC ATTCCTTGTA CAAAGGATTT TCACTGGCTG	G	231
(2) INFORMATION FOR SEQ ID NO:55:		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 330 base pairs		
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double		
(D) TOPOLOGY: linear		
• •		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:		
• 10		
GAATTCGGCC TTCATGGCCT AGAAATATTT TCCTACAAGA GTACTGAATT	TCAGGAAATG	60
GGATAGAGCT TCTAACCAGT GTATTCCGTC AAGTAAGATA ATAACAGCTG	ACCTGCCAAC	120
AGCATTACAG GGAGATTCTT TGCTCAGCTA ACACATTTCT GTTTTTCAAA	ATTGATGCTT	180
AATTGTAGCT GTTATTCTAA TTTGTGACAT GGAACTAACT CATGCTTCAA	TCCTTGATAG	240
AGCAAAACTC AGAACAGGTT ATGTAAAAAT ATAGTCTGGC TTTAGAATTT	GTTAATTCAC	300
CTGCTTTGCC ACAGAAAATG GAGACTCGAG		330
(2) INFORMATION FOR SEQ ID NO:56:		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 230 base pairs		
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double		
(D) TOPOLOGY: linear		

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

GAATTCTAGA	CCTGCCTCGA	GATCTGAACT	ATAATCTTTT	CCATTCTATC	TAGCTCCCAT	60
CCTAAGTCCT	CTCCTCCTAA	CGTGGAACTC	TCCTAAAATC	TTCTCCTTAT	ACTAGGGTTC	120
GAGACATGAG	GCTGTCTTTT	TGGGCCTTTT	GCGTTGTCAC	AGTCCCAGAC	CACGGAACAT	180
TCTCTCTTCC	CCAGGACAGG	ACATTCTCTC	TTCCCCAGCG	CTCCCTCGAG		230

- (2) INFORMATION FOR SEQ ID NO:57:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 416 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

GAATTCGGCC	TTCATGGCCT	AAAGGGAAAG	TGGGAATATA	CACAATGCAN	ACACTAGCCA	60
CATGCAATCA	TGGGAGAACA	GAGCCTACTT	AAAAATCANA	CCCAAGCTTT	GCTTCAGAAA	120
TAAGTGGAGT	TGAACCCATT	CGATCATTTA	CGCATGACTT	TGCAAAGGTT	CTCTGGAGGG	180

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	CAACCTTCTC TCATACCGCA CAGCAAGGGA ACCAAAGTAA TATAAATCAC GTCATGTTAC TTTAAGAATA AGCCATACTG CTGGCACCTA GAATATTTTT	240
	ATCTCTGGCT TTTCTTGTTC AAATGGCCCC CAGGCTAAGA GGCAGCTGCT	300
	CAACAAACAT GTTCTTTCCT TTCTGCATAG CCTTCCATTT CTCGAG	360
Charicollo	CANCANCAL GITCHTCCL TICIGCALAG CCTTCCATTL CTCGAG	416
(2) INFORM	ATION FOR SEQ ID NO:58:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 289 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	) MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:58:	
23.3.mm2022200		
	TCATGGCCTA CTAGACCTGC TCAGTCGTTC CTAATGAATA AAAATCAAGT	60
	CAGCCCCAGA TAACTATGAT TCCTCCTAGT GCACAACCAC CACGCACTCA CTGGGACAGA CACCTCAGCT TGGTCTCAAA ACTAATCCAC CACTTATCCA	120
	GCCAAGACCA GCAAAAAGCC ACCACGTCA AAGGAAGAAC TCCTTAAACT	180
	GTTGTGACTG AATATCTAAA TAGTGGAAAG TCACTCGAG	240 289
	oriorogian international controlla	209
(2) INFORM	ATION FOR SEQ ID NO:59:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 382 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:59:	
	TTCATGGCCT AATTTGAGGC CTGGGTGGAA CTGACAGGTG GAGTTTGAAG	60
	TAGCTCACAT AGGAAACAGA ATCTCCCAGG GAAAAGACAT AGGACCTCTG	120
	AGGTTCTGGA TTATTATGAG AGATTTTCAG AAATGGTCTA ATGGTGTTGG	180
	ACCATAGATT TTAAGAGACA GTAGAGCTTC TGCGATGAGA TTCCCCCATA	240
	GGATCTGCAC TGGCAAGCTG GTCTTGGCTC CAAAGACCAA GAGTTGGTTT	300
	TTCTGAACCC TTGCGATGCA ACTGTCTGGT AGTAAAATGG CTTTGTATGG	360
TAAGAAAGCT	TTAATCCTCG AG	382
(2) INFORM	ATION FOR SEQ ID NO:60:	
- (i)	SEQUENCE CHARACTERISTICS:	
4	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:60:	
•		
ААААААААА	CAAACCCTAT TATTTCATTG ACAGATTGTC TTAGAGTTGA TAGCATTTAA	60
	AGTACAGTCC TTCCTTGTTC CCAACGTGCC CTATTTTTTC TTTCTTCTCT	120
	ATGCATTTTC CCTCTTTCTT GTTTCTTGGT GAATTCCTAA ACCTTTTTTT	180
TCAAAATCAC	CTCGAG	196

2	INFORMATION	FOR	SEO	ID	NO:61 ·

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 281 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

GAATTCGGCC	TTCATGGCCT	AACCACATTT	TTCTAATTAG	TGTTCTAGAC	TGGCTAGATA	60
AATCAACAAT	GAATCAACAG	TCTTTAAGCA	CATATACAGG	TATGATAACT	CTGTAGTTAA	120
CTCAAATCCT	TGTGCTATGT	ATTATTTTGC	TGCGTAACTC	AGAATTCAGG	AAGCTACCCA	180
CCCAATCAGT	CTTTAGCTGT	TTTATTTCAG	TAACAAGTTT	ATGCAGAACC	TTCCATATCT	240
CTCATAAAAC	CAGAGCATTC	ATAGAACCAG	AAACTCTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:62:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

GAATTCGGCC	TTCATGGCCT	AAAAGATTTG	AGCATTTCAA	AATTTTAAAC	ATAAAAGCAT	60
AAACGTAGAT	AAAATGAAGG	TGTACTATGA	TATCTTCAGT	TTTATCAGAA	ATGATGTAAA	120
AATTACAACC	TCTTTAAAAA	GTAGTGTTAA	TCATTAAGTT	AGAAAATATA	TAGCTGGGCA	180
${\tt TGGTGGCAGA}$	TGCCTGTAAT	CCCAGCTACA	TGGGAAGGTG	AGGTGGGAGA	ATCGCTTGAA	240
CCCAGGCAGT	GGAGGATGCA	GTGAGCCAAG	ATCATGCCAC	TGCACCCCAG	CCTGGGTGAC	300
AGAACAAGAC	TCCATNTCAA	GGAAAAAAA	AAAGAAAAAT	ATATATATGA	ACTTCAGAAT	360
CTGAGGTCAT	ATATAGACAG	GTCTTCCCCC	CGTCCTCGAG			400

- (2) INFORMATION FOR SEQ ID NO:63:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 297 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

GAAACCATAG	TGGCAGATTT	GTAGCAAAAA	GAATCTTTGT	AACCTTCCCT	TTAGATGTCC	60
TGTGTTATGG	CTTGGTTTTT	CTCAAAGATC	ATAGATTGCA	GTGTTTATCT	CAACTCAGTA	120
TTTCCTTTGA	AAATTGAACT	TTTCTCTATA	TTTTCCTTTC	CCCCATGCAA	ACTTTTTGAT	180
TGTTTTTCTG	AAATCATAAT	TCATTTGACT	TACCAGTTAA	TATTGATACA	GGTCTTGCAT	240
GTTATGAAGT	GCATTGTGTA	CATTATCTTG	TTTAATTTTC	ACAACACTCT	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:64:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

GGTCGCAGAA	GAGTGTCAGA	ACAATCAGTT	AAAGAAGCTC	AAAGAAATCT	GTGAGAAAGA	60
AAAGAAAGAA	TTAAAGAAGA	AAATGGATAA	AAAGAGGCAG	GAGAAGATAA	CAGAAGCTAA	120
ATCCAAAGAC	AAAAGTCAGA	TGGAAGAGGA	GAAGACAGAG	ATGATCCGGT	CATATATCCA	180
GGAAGTGGTG	CAGTATATCA	AGAGGCTAGA	AGAAGCGCAA	AGTAAACGGC	AAGAAAAACT	240
CGTAGAGAAA	CACAAGGAAA	TACGTCAGCA	GATCCTGGAT	GAAAAGCCCA	AGGGGGAAGG	300
TTCCTCCTCA	TTCTTGTCGG	AAACTTGCCA	TGAGGATCCC	TCTGTTTCCC	CCAAACTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:65:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

GAATTCGGCC	TTCATGGCCT	ACTGGGGGAA	GAAGGCTGCT	TTATGTTTAT	TTTTCAAGAC	60
TTTAAAAATA	TTTTTTGGTT	GTATTGCACT	AGGAAATCTC	TCCCACCTCT	CCCTTTTCTC	120
TTTCTTTCCC	TATACAAAAT	AAAAGGCCCA	CCATAGAGAC	TAGGCGGCCG	AAAGACTAGG	180
AGGGCTGAGG	AAAAGAAATA	GGTCTCTGGA	GGTGGAACTA	AAACTGTGCA	GCTGCCTCTT	240
CCTGGCGGTG	GATGCTGCTT	TGGGAGGGCC	AGGGAGGCTG	CAGGGGGACA	GTGTTGGGAT	300
TGTCAAGGAA	AAAGGGGTAG	GAAGGAAGGT	GGAGGGATTG	ATCTAGTACC	AGGGAGAATA	360
TTCCACTGAA	CTGTGATTCT	ATGCGGCCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:66:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 335 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

GAATTCGGCC	TTCATGGCCT	AATTTGTTAT	TGCTAGAAAA	TACACAGTTT	TGAGATTTTT	60
${\tt GGGCATAATT}$	${\tt GGCCTTAGTG}$	TGTCACTTCT	GCATTAAAAT	ATAGGTTAAT	AATCAGATGA	120
AAGCAGCCAA	TAACCTATGG	CTTCTGTACT	TTCTGGTGAA	AGTTTTGTTA	ATGTTTTTAA	180
TTTGTATTTT	TCTGCTTATA	AATTTGTCCT	TAAATCACTC	CCCTCCTTCC	CGCCCCCCG	240
ACTCCTTCTC	CCTCCTTCCC	GCCCCCCAA	CTCCTTCTCC	CTCCTTCCCG	CCCCGCGAC	300
TCCTTCTCCC	TCCTTCCCGC	CCCCCGATCC	TCGAG			335

- (2) INFORMATION FOR SEQ ID NO:67:
  - (i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 235 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	
GGTGACATAT TTATTGCTTC TGTTTTCCAA CTACATCACT TCAACTAGAA GATTTTCCTG ACTTCACATA GGAGGCAAAT TTAGAGAAAG TTGTAAAGAT TGGGTTTTTT TTTTCCCTTT TTTTTTTTAA GAGTATAAGG TTTACACAAT ATGTGACGCA AGCCAGCAAG GCCAAAAATG CTAGAGAAAA TAACGGGATC	TTCTATGTTT 120 CATTCTCATA 180
(2) INFORMATION FOR SEQ ID NO:68:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 257 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	•
GAATTCGGCC TTCATGGCCT ACCACAATCT GTTTGCTTTT CCTCTTTAGA AACACCCCAA AGGCTACCTT TTCAAATATT CTACAACATC TGCAAAAAATC TGTCCTTGGA GTCAGTCAAG AAATTCCACC CCAGAAGTGT AAAAACCAAT TGACACTGAT TTTCTCTAAA TTATTATTTT TCTTATGGTT GAGTCTCCTG GTTTCCCAAT CGGCTCG	TTTAGTACTC 120 CAATAATATA 180
(2) INFORMATION FOR SEQ ID NO:69:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 261 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:	
GAATTCGGCC TTCATGGCCT AGCTGGGCAT GGTGATGCAC GCCTGTAATT AGGTGGGGG TTAAAGGTGA GGCAAGGTCA GCGGTGAAGT GCAGCTCAGA AAACATAAAC CAGAACTTAT AGGTCTAGAG GTAAAATGGG ATTCATGGGG AAAGGTGAAG CAGAAGTCAG GGGTGAAGGA AGGTCTGCAA AGTTAAAGGT GAGTCAGAAG GGGTGCTCGA G	GGGAGGGGTC 120 GGCAGAGGTC 180
(2) INFORMATION FOR SEQ ID NO:70:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 279 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

GAATTCGGCC TTCATGGCCT AGATTGAATT TTTAACACAG TCCTCTCAGA AACTGACTAA AACAGGTTTT AAAATTAGCA AATATTAAGA ACATACGAGT AAAAGTCAGT TTATTTTAGA TAAGTAGGGA TTTAAAATTCA ACAAAAATAA ACACATTTTA AACTCCTATA ATACATTTAT TTAAAATAAA TATATTTTG CCAAAAGAAG TGTAAGTTCA AAGAGTTAAC ATACAGATTA TATCCTATGA GATATAATAA TATTAGAAAC TGGCTCGAG	
(2) INFORMATION FOR SEQ ID NO:71:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 255 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
GAATTCGGCC TTCATGGCCT AGTTACATTT ATAATCAGTG AGGAAAATAT AAACTATACA ATAAATGAAA GGGTCATTGG CCAATTGTTT GGAGGGAAAA AATACACCAT GTTCTAAAAT AAATTTCTAG TGATTTATTG TGACTTTCAT GCATTTGGAT GATTTTAAAG ATTTTATATA AAAATGAAAC CATAGCCTTA CGAGAAGAAA ATATAAAGAA AAACTTGTAT AGTCTTGGGA GGGGGGGATTC TCGAG	60 120 180 240 255
(2) INFORMATION FOR SEQ ID NO:72:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 138 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
GCGATTGAAT TCTAGACCTG CCTCGAGATC GTCTTTTCTA CCTGGATGAG AGCTCTACCA CTTCTTTCCT TTTGCACACT CATCTCATTC TATGCACTCT TGGGCTGTAA CTGTCATTTC TTTTCCTGTA CACTCGAG	60 120 138
(2) INFORMATION FOR SEQ ID NO:73:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 208 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	

60

120

180

208

GAATTCGGCC TTCATGGCCT ATCACATTGC ATTAAATCTG TAGATTACAT TGAGCATTAT

GGACATCTTC AAAATATTTC AAATTTTGAA CAGGAGCATG CTGAAGAGTG TGTTGTTTAA

TTTCTATGTA TTTGTACATT TTTTTCTCT ATCTTATACT GCCGAGACCA GCTCAGTCGG

GGAGACCCTA ACCCAACGGC AGCTCGAG

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121	INFORMATION	FUR SEO	LD	NO: 74:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 268 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

GAATTCGGCC	TTCATGGCCT	ACATGAAACT	GTTAGTCACT	TCATTTCTGT	TTCTTCCCTG	60
TTGCAACAGC	CCATCTTCGT	GGGAAGAACC	AAGCTTTAGG	CTTGGCTCTG	AACAGCCACA	120
AAGTGACTTG	GCTGAGGTCC	TGCCATTTCG	CTCATGCTCA	GCAGGGGGCA	GCAGACCAGG	180
GCAGTTCAGA	GTATGGGGTC	AAACCCAGGT	CCCTGTCCCC	ACTCCACCTG	TGGATTTACC	240
CTGGATTGGG	CAAGCCCCAT	TACTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:75:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

GAATTCGGCC	TTCATGGCCT	ACGTGAACAA	GACCCTCCCA	AACCTTCAGG	TAGTCAACCA	60
CCAGCAAGGC	CCCCACCACA	GACACATCCT	GAAGCTGCTG	CCGTCCATGG	AGGCCACTGG	120
GGGCGAGAAG	TCCAGCACGC	CCATCAAGGG	CCCCAAGAGG	GGACATCCTA	GACAGAACCT	180
ACACAAGCAT	TTTGACATCA	ATGAGCATTT	GCCCTGGATG	ATTGTGCTTT	TCCTGCTGCT	240
GGTGCTTGTG	GTGATTGTGG	TGTGCAGTAT	CCGGGAAAAG	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:76:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 199 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

GAATTCTAGA	CCTGCCTCGA	AAATACACTG	TTACTATCTT	AATCTCAAGA	GTGTCATTAC	60
AGTGAGAATC	TCATTTAAAA	GCATACCAGT	GAAATTAATA	GCAGTGCTTA	TCAAAGAACA	120
CTGAAATCTG	TGAGAATCTT	TCTAGGAGCA	TTCTTTTCTT	CTTTTAGTTC	CAAGTTCCAG	180
GTAGGCCATG	AAGGTCGAG					199

- (2) INFORMATION FOR SEQ ID NO:77:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 233 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

GATTGAATTC	TAGACCTGCC	TCGAGTTCCA	CGTCCATGGC	CATCCTGAGC	ATGCTGCAGG	60
ACATGAATTT	CATCAACAAC	TACAAAATTG	ACTGCCCGAC	CCTGGCCCGG	TTCTGTTTGA	120
TGGTGAAGAA	GGGCTACCGG	GATCCCCCCT	ACCACAACTG	GATGCACGCC	TTTTCTGTCT	180
CCCACTTCTG	CTACCTGCTC	TATAAGAACC	TGGAGCTCAC	CAACTACCTC	GAG	233

- (2) INFORMATION FOR SEQ ID NO:78:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 276 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

GAATTCGGCC TTCA	ATGGCCT AAGAATAGAG .	AAAACGTTTT	CAGCAGGCTT	CACAGAGAAA	60
CCAAACAATA TTTA	AGAATAT GACAGCATAT	GAAGAGTCTG	CTACTCTCCC	AGTGACCCAT	120
ACTITCTCTT CCAT	CTCTGC TGGTTCTCTC	TACTACCGAT	TCTTTCTTGC	TGTTCTCCTT	180
CTCCATCACC GTGA	ACTTCTA TTGCCTTACT	CTAATGTCTT	GTCTTCTGTG	TTACCCTTCT	240
GTGTGTTTTG CATT	CAGAAC TCCCCCTCCG	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:79:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 273 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

GAATTCGGCC	TTCATGGCCT	ААААААААА	AAAAATCCCT	GGCTGAGAAC	TATTGGATTA	60
GGGCCTCCNG	TACCTATCTT	TGAGGGGGAA	AGGATGCTAC	CATCAACTTT	TCTGAATGCC	120
AGGAATGCCT	TTTAGTATAG	TTATTTCACT	TACTATTTTA	TAGCATATTT	TAATTGTATA	180
GTAAGCATTG	TGTCTGTTTT	ATGGTAAGGA	AACTAAAATT	GAGAGATTAG	GCTGCTCGTG	240
GTGGCTTATA	CCTTGTAATC	CCAAGCACTC	GAG			273

- (2) INFORMATION FOR SEQ ID NO:80:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 284 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

GAATTCGGCC TTCATGGCCT AGCGAAATGA CGAAATCTAG CCCTTTGAAA ATAACATTGT TTTTAGAAGA GGACAAATCC TTAAAAGTAA CATCAGACCC AAAGGTTGAG CAGAAAATTG AAGTGATACG TGAAATTGAG ATGAGTGTGG ATGATGATGA TATCAATAGT TCGAAAGTAA TTAATGACCT CTTCAGTGAT GTCCTAGAGG AAGGTGAACT AGATATGGAG AAGAGCCAAG AGGAGATGGA TCAAGCATTA GCAGAAAGCA GCGAAGGGCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:81:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 284 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:	
GGGAACTGGA GGAAAACCAT CACAAGATGG AGTGCCAGCA AAAACTGATC AAGGAGCTGG AGGGCCAGAG GGAAACCCAG AGAGTGGCTT TGACCCACCT TACGCTGGAC CTAGAAGAAA GAGCCAGGA GCTGCAAGGA CACAGCACCG AGAGCCACGA GAGCTGCAAG GAGCACCG GAGAGCTGCAA GAGCTGCAAG GAGCACCG AGGAGCTGCA GAGCAGCAC AGGAGCTGCA GAGCAGCAC CTCAGGATCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:82:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 311 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:	
GAATTCGGCC TTCATGGCCT ACTGTGTGA CTTGGTGGCT TGCTTGATAA GAAGGTTTTA IGAAGCACAG CAGATATCTC AGCTGCTAAT CCTGTAAGCC CTTTACCCAT TCTCGCTTTT CTCTGCTCTT GCCACATCAT GAATAGATTG GTATACTATT GTGGGATACT TCTAGTTTTA GCACATGATA TAGGTTATG TTAATGTTCC TTTCCATCTT CCTGGTTACT GATAATGTTC CTTTTCTGTA GATGGGTCTA TTCGATGGAA GAGTTTCAGC TTTGTTCGTG TTATTTCCCT GGGACCTCGA G	60 120 180 240 300 311
(2) INFORMATION FOR SEQ ID NO:83:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 329 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	
SAATTAATCG TAAGAGAACC TCAGCATTGT GCACGATAAG AGAATGTGTC AGTATTTCAG GGTCTACAT TTTATCTGTA AAATGTGACT TTTTTTTTT TTTATCACAA CAGAAGTAAA ATGTTGCTTT GTACCTGGTG TCTTTTATTA AGAATTTACT CCCCCCATTT CTCACAAGAA	60 120 180

GGACTAAGTG GTCCTCATGA ATTGCATTAA GACTCTGTAC TGCTCATATT ACACTCCATC CTCTCTGTAG TTTGCTGGGT ATTCTCGAG	300 329
(2) INFORMATION FOR SEQ ID NO:84:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:	
GAATTCGGCC TTCATGGCCT AGAAAGACAT CATTTAAGTN CTTTTAACAT TTAGTTTGTG GTCATAAGTT GACCTTTATG TGCTTTCTGA ATTGGAACTT AAAATAATCT TTAATTCATT ATTTTTTCTA CTTCTAGGCC AGTTTTGAGT TTAAATATTTA TAAAAGGTTA GATAGGTTATA GATAGGATTA TTTGCAGTT TTGAAACAAC ATACAAATTG TTATAGATTT CAGAGTAGG CTAATCACAG GAAAGACAAA AGTCAGAATG CTTNAGGTAA GCCCCTTCTC ATTATATAAG ATCAAGCTCG AG	60 120 180 240 300 312
(2) INFORMATION FOR SEQ ID NO:85:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 304 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
GAATTCGGCC TTCATGGCCT AAAAACTTTC AACTTAGAAA AACTAGCAAG GGATTGTTCA CCCTTACCCC AGTGGTTGGT GCTAGAGAAA AAATGGAGGA TGTCTGTTCC ACGCAGACCC TGGTGGTTTA AAACACACAT ATAGATGGCT CTGGGACCAT CAAAATAGCA GCAGCAAAGA GCCACTCCAC CAGCCTCCCC TCCACTCCCC CAGGCCCCAC ACAGCAGAAG GCTCCAGCCA CTTTTTGGAA GCCTGTAGCC TGGCTCCATC TTGCCCTGTG CCACAAATGC CCATGGCCCT CGAG	60 120 180 240 300 304
(2) INFORMATION FOR SEQ ID NO:86:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 291 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
GAATTTTGAA CACTAAAGCT TTGGATACAC AAATTTATAA CATCTTATTT ATAAATCAGT GGTGTACAGA AAGCAGAGAT CCCATAATCA AGCATGGCAA ACATGTTGAA GAATATGCTT ACAATGATTT CTGCTATAGA TTTCATAATG GGGATTCAGA GAAGTAGAGT TATGGTGCTG GTTCACTGCA TTGATTGGAT CAGGCGCTGG AAACTCTCCC TGATAGATT TATTCTCACC TGTTGGGCAA TTTCCAGAAT ATTCTGCTGT AATTTTACAT GTGGGCTCGA G	60 120 180 240 291

(2)	INFORMATION	FOR	SEO	ID	NO:87:
\ <del></del> /	TT-11 C1/11 H1T T Off	LOK	244		110.01,

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 423 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

GAATTCGGCC	TTCATGGCCT	AGCTAGAAAA	AAAAAAAAA	AAGCCCTTTT	CAGTTTGTGC	60
ACTGTGTATG	GTCCGTGTAG	ATTGATGCAG	ATTTTCTGAA	ATGAAATGTT	TGTTTAGACG	120
AGATCATACC	GGTAAAGCAG	GAATGACAAA	GCTTGCTTTT	CTGGTATGTT	CTAGGTGTAT	180
TGTGACTTTT	ACTGTTATAT	TAATTGCCAA	TATAAGTAAA	TATAGATTAT	ATATGTATAG	240
TGTTTCACAA	AGCTTAGACC	TTTACCTTCC	AGCCACCCCA	CAGTGCTTGA	TATTTCAGAG	300
TCAGTCATTG	GTTATACATG	TGTAGTTCCA	AAGCACATAA	GCTAGAAGAA	GAAATATTTC	360
TAGGAGCACT	ACCATCTGTT	TTCAACATGA	AATGCCACAC	ACATAGAACT	CCAACATCTC	420
GAG						423

- (2) INFORMATION FOR SEQ ID NO:88:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 172 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCTT	GGGGGGATTA	CAGTTCAACA	AGAGATTCAG	60
GCAGAGACAA	ATATTCCAAA	CTATATCAGG	AATTAAGTAG	GCTTTGCTGT	CCTTTTGCAG	120
CTTTGAGTCA	ACCCATATGA	GAGTGAATTC	TCCGATCCTG	TACATACTCG	AG	172

- (2) INFORMATION FOR SEQ ID NO:89:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 260 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

GAATTCGGCC TT	CATGGCCT ACCCGTGTTC	TCCAGTATAC	CTTATAACAC	TTAGCCACTT	60
CTCCCCACCC TC	CAGAAGGG GTCCACGTTC	AATTCTGAAT	CATCTTGAAA	ATAAGATTCC	120
AACCACAAAA AA	AATTTAGC CATTTCTTT	CTAAAAAAAA	CCAAAAAACA	AATCTGTTTT	180
ATAATCACAG AT	TTTTAGAC AAATTTCTTC	TATCAGGAAG	AAATACAAAT	TTTGTCATGT	240
TTCTCAAGCA GT	GTCTCGAG				260

- (2) INFORMATION FOR SEQ ID NO:90:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 250 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

GAATTCGGCC	TTCATGGCCT	AAACTAAGAT	AAAAATAAAC	AGATAGGAGA	GCTGAATTCC	60
ATTTCAAGTC	CTCATGTATA	TGCTTACAAA	GTTCCAAATT	AAGCTTGGGA	CTGGTTCTTA	120
CATGGCAGGT	AATCCAAACC	TTTTCTATTT	ACTGAAGATT	TTCAGCTCTC	TTACAGAAAT	180
ACACAGGCTA	CCATTAAAAT	TGTAGGGATA	AATTTTAAAT	TGAATTTGAA	AATAAGAGCA	240
AGTACTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:91:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 260 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

GAATTGAAAC	ACAGAGTTGT	TCTGCTGATA	GTTTTGGGGA	TACGTCCATC	TTTTTAAGGG	60
ATTGCTTTCA	TCTAATTCTG	GCAGGACCTC	ACCAAAAGAT	CCAGCCTCAT	ACCTACATCA	120
GACAAAATAT	CGCCGTTGTT	CCTTCTGTAC	TAAAGTATTG	TGTTTTGCTT	TGGAAACACC	180
CACTCACTTT	GCAATAGCCG	TGCAAGATGA	ATGCAGATTA	CACTGATCTT	ATGTGTTACA	240
AAATTGGAGA	AAGTCTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:92:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 354 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

GAATTCGGCC	TTCATGGCCT	AATTTCATCT	TTTTTTCCTG	GTGCTGCATA	AACATATATT	60
${\tt AAATGTTGTT}$	ACTGATCCCT	AGTACTGTTG	ATTTGTGACC	CTTCTCCTGA	GGGAGACTAA	120
AGCTGCTTGA	GCTAAAGGCT	TTTGAGACAT	CCCATACGGT	TCCCTGAACA	AAGTTTTCTC	180
TCCTGACCTC	AGTTCTCTTG	ATGACCTTGG	CAAGTGGGCC	CGACTAGTTG	GACACTAATG	240
AGGCATCGTA	ACATGCCGGC	CCCATCCTGT	CCATTCTGTT	CTCTTTGCCA	TCTAGCATTC	300
AGTGTTGTGT	CTTCCTAGTG	GGCATGAAGA	CGGCTTTAAA	ACCATCCACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:93:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 493 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

GCTGAAAATG	CAAAACATGA	AGAAAGTGAT	TGAGGCAATT	CGAGTGGAGC	TGGTTCAGTA	60
CTGGGACCAG	TGCTTTTATA	GCCAGGAGCA	GAGACAAGCT	TTTGCCCCTT	TCTGTGCTGA	120
GGACTACACA	GAAAGTCTGC	TCCAGCTCCA	CGATGCTGAG	ATTGTGCGGT	TAAAAAACTA	180
CTATGAAGTT	CACAAGGAAC	TCTTTGAAGG	TGTCCAGAAG	TGGGAAGAAA	CCTGGAGGCT	240
TTTCTTAGAG	TTTGAGAGAA	AAGCTTCAGA	TCCAAATCGA	TTTACAAACC	GAGGAGGAAA	300
TCTTCTAAAA	GAAGAAAAC	AACGAGCCAA	GCTCCAGAAA	ATGTTGCCCA	AGCTGGAAGA	360
AGAGTTGAAG	GCACGAATTG	AATTGTGGGA	ACAGGAACAT	TCAAAGGCAT	TTATGGTGAA	420
TGGGCAGAAA	TTCATGGAGT	ATGTGGCAGA	ACAATGGGAG	ATGCATCGAT	TGGAGAAAGA	480
GAGACTCCTC	GAG					493

- (2) INFORMATION FOR SEQ ID NO:94:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

GAATTCGGCC	TTCATGGCCT	ACACACGGCC	AAATTTGAGG	GCATTCTCAC	ATGTGTTCTT	. 60
CTCTCAAAAC	CACTGGGGTT	GACAGATCCA	GGAGGCTAAA	AAAAAGTGAC	CTCTATAATT	120
CTTTAAAGGT	GCTATTTTTA	GAANATTGTA	TAATTTATTC	ACAGTATATC	TAAAACAGAA	180
TTAAGGACAA	TTAAAATATC	TTATGTGACA	GCCTTTATGT	CTAGTCACAT	TTGATGAAAT	240
AAAAAACTTC	TGAATCTGAA	TAGAAGTTCT	ACTGTNTCAG	GATTGAACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:95:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 280 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

GAATTCGGCC :	TTCATGGCCT	AAAAAGACAG	GAAAATAAGT	CTCTTTGTAT	CCTTATTAAT	60
CATTTGAAAT '	TATGCTATAA	TATTTTTAA	AACTCACCTG	TTTGGTTCTG	GGTGAAGCAG	120
TTCCTGAAGG A	AGTGTTTTGT	CAGAATATAT	TGTTAGGTGA	ATAGAGGGTT	CTGTGGCCAA	180
GTAAGTTTGG (	GAAATAGTGG	GTTAGACAAA	GTTGAGTTAC	TGTTGGCCTT	TCAGACCTTT	240
GATACGCTAA '	TGTGCATTTT	AAATCTCCAA	GAAGCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:96:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 279 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

GAATTCTCCA	GCCTGGGTGA	CAGAGTAAGA	CTCCATCTCA	AAAACAAAAA	AACCCAACAG	60
GATAAAATTT	AATAGGAGTA	AATATAAAGT	TCTACGTTTT	GATTTTAAAA	ATCTAGGTAC	120
TGTATAGTGT	GTATTAGTTG	GGGTTCCTTT	TTTGAAACTT	AATCTTGCCT	ATAAAACACA	180
AAAGAGTTTA	AGATGATATT	GAGACTCCTC	CTGTCCTCAT	TCCTTTTCCT	TCCTAATAGC	240
TCAGTCCTGA	AGCTCTTAGG	TGAGGCAGAA	CAACTCGAG			279

- (2) INFORMATION FOR SEQ ID NO:97:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 307 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

GAATTCGGCC	TTCATGGCCT	AGGATACCTT	CATTTCAAGG	AGCCTCTTTA	CAGTAACTGG	60
GCTAAACATT	TTGTTGTCGT	CCGTCGGCCT	${\tt TATGTCTTCA}$	TCTATAACAG	TGACAAAGAC	120
CCTGTGGAGC	GTGGAATCAT	TAACCTGTCC	ACAGCACAGG	TGGAGTACAG	TGAGGACCAG	180
CAGGCCATGG	TGAAGACACC	AAACACCTTT	${\tt GCTGTCTGCA}$	CAAAGCACCG	TGGGGTCCTT	240
TTGCAGGCCC	TCAATGACAA	AGACATGAAC	GACTGGTTGT	ATGCCTTCAA	CCCACTTCTA	300
GCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:98:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 292 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

GAGCTGTGTC	AGCATCGATC	AGGGGTCTGT	AGACAAAAAT	TCCCAAAGAT	TTGAGACTTT	60
ATTGGGGGAA	ACAGATCACT	GGCGGGGAAT	AAGCCACAGG	CCAAAGGAGG	AAATGCTGGG	120
ACCAGAAGTC	CCGCTTGCCG	CCTTTTGCTA	AAAGTTCCGC	ACGCCTGCTC	GGCGTGGGCG	180
CAAGCATAGT	GTCGTCGGGG	CTCTGCGACG	TCTGATTGGC	TCTCTGCAGT	GCACCGTCGA	240
GGTAGAAGGC	TCAGCTCCTA	GTCGCTCCCA	AATTACTTTG	TTGGTGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:99:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 397 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

GCCTCTCTGT	TCTGGTTCTC	TCATTTTATA	AAGTGCCTTC	TTCCTTTCTG	CATTTATAAG	120
TAAACATGAG	AAAAATCTGA	AAAGACTTCT	TCAGGATGTT	TAAGGAAACA	AATGTTGCTT	180
TCCTTGGGTT	GGGTCGTTTC	ATAAGAGTGA	TGTTTGCCAT	AAAACTGGAG	CCTCATAGAC	240
GATCCTGCAG	GGAGGAAGCT	TTCCTTGGTC	ACCTGACTCA	TGTGTTTATA	TATAGTATAG	300
AGGAGAGGTA	TTCCAAAAGA	CCCGTCGCTT	TTCCTGTGTC	CCACAGCTGC	CTGTAGAGTT	360
GTGGCACCAT	AAACTTTAGC	AGCTGGAAAT	CCTCGAG			397

- (2) INFORMATION FOR SEQ ID NO:100:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 370 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

GAATTCGGCC	AAAGAGGCCT	ATTAATTTAA	TAAAGCCATA	TCATACCTCT	CTTTAACATT	60
GTTAAAAGGA	AACTGTGTGT	GTGTATTTGT	GTTAATGTTA	ANTTCTCTTC	ATTTTTGTGC	120
TTGGGGGGCT	${\tt GTTTATTTGA}$	GGATGGTCGG	GGGGCGGGTG	GGTCAGACCC	ATCCATCCCC	180
CATGGAAGAC	CAGACCCATC	CATCCCCCAT	GGAAGACCAT	TCCCGTGTGT	TCAGACTGGC	240
AGGGTACTTC	CATAGACAGG	AACATTCTGG	ATGCTCTGAT	GCTGAACACT	ACCAGAATCG	300
GCCATGGATT	TGCTTTGAGC	AAACACCCCG	CAGTCAGGAC	TTACTCCTGG	AAAAAGGACA	360
TCTTCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:101:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 340 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

GAAAAAAATA	GACAAAACTA	TGATGTAAAA	ATGCTTAAAA	ACAATTATTC	CTCTCTGCTA	60
ATTTTAATGC	AAAATAAATG	ATGCTAGCAT	TTAATATGTT	TATATGATCT	TGTTTTTAGG	120
ATTGAAATTT	TAATACAATG	GCCTTTTGTA	ACTATTTTA	CTATTATAGC	TCAGGTGTTT	180
GAATTCTCTC	TACCCCACCT	ATCACCCCTA	TCCCCTAACA	AAGAGTCTGG	CTTCATAAAT	240
ACTGTTGAAT	GAAAATTGGT	TCTCTAAATG	GTTAACAAGA	TGAATCCACA	TAAATCATAA	300
TTCAGTACTG	AGGAACCGAA	TTTATACCCA	GCGTCTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:102:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 370 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

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AGGCAGAG AAGTAGCTGG AGGCAGAG AAGTAGCTGG AATTCAGG TGGGATTGA GTGAAGAGA CTGGAGTGG	GAACTGAGAA ACAGAGATGT GGGGCAAGTA	GAACTTTGGC GTGGTGATCT TGGAAGCATG	TGTTATTCTA GACTTGGTTC GAGACCATTA	GTAAGACTGA ATTCTGCTGT ATTTATGGGG	120 180 240 300		
CAATGGTAG AGGGAAGAGA	AACAATGCTA	TTAACTGGAG	TAGGAGCACA	CAGAGAACAA	. 360		
GCCACTCGAG 3							

- (2) INFORMATION FOR SEQ ID NO:103:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 270 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

GCGATTGAAT	TCTAGACCTG	CCTTGAGATC	ACCGAGTGCT	TCATCTCTGA	CAGTTCCTCT	60
GACCAGATGA	CCACAGGCAC	CAACGAGAAC	GCCGACAGCA	TGACATCCAT	GAGCACACCC	120
TCAGAGCCTG	GCATCTGCCG	CTTTACCGCC	TCACCACCCA	AGCCCCAGGA	TGCGGACCGG	180
GGCAAAAACG	TGGCTGTGCC	CATCCCTCAC	CGGGCCAACA	AGAGTGAGTG	CTCAGACCAC	240
CTCCCAGGCA	GTGCCCCCC	GACTCTCGAG			•	270

- (2) INFORMATION FOR SEQ ID NO:104:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

GAATTCGCCT	TCATGGCCTA	ATATGCTTAT	GAATATGATG	TTGATGGACA	GCTCCAAACA	60
GTTTACCTCA	ATGAAAAGAT	AATGTGGCGG	TACAACTACG	ATCTGAATGG	AAACCTCCAT	120
TTACTGAACC	CAAGTAACAG	TGCGCGTCTG	ACACCCCTTC	GCTATGACCT	GCGAGACAGA	180
ATCACTCGAC	TGGGTGATGT	TCAATATCGG	TTGGATGAAG	ATGGTTTCCT	ACGTCAAAGG	240
GGCACGGAAA	TCTTTGAATA	TAGCTCCAAG	GGGCTTCTAA	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:105:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

GAATTCGGCC	TTCATGGCCT	ACTTAAATCT	TAGATGCTAA	TGGGAGAAAC	TGATTTTTTA	60
AAAAACAGGG	AAACTAATTA	ACATTTTATC	AGATATGCTA	TGAAGTAAAC	AGTTGAAGAC	120
TGACAGTCCA						180
CAAGGGGAGA						240

AAGGAGCAGT AGGTCAAAGC CTGAGGCAGG AGAGAGCTTG ACTGACTCGA G

(2) INFORMATION FOR SEQ ID NO:106:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 339 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:	
GAATTCGGCC TTCATGGCCT AGAAATGGTT CTGAAAGCGA CAGTAGAGAG ATGCAGTTGT GATGATTTCA ACAACCTGGA TGTTTTCTTT CTCCTCTTTG CTTCCATTCA TCTCTGTTGG CTGCTGTTGA TGGAGTCAGA CAGTAAACAC GTGGCTTGGA TAACACCCAT CATCCTATGA AGAATATAGG GAGTACTTGT TCTCTGTTGA TTCAACTTTT ATGTCTCCAG TAACATTGCG CTTATGAAGG TACCTGTATT TGTATGGACT CTGAATAAAG AAGAATTCAT TTGTTTAGCA AGTATTAGTT CAGCAACCAC TGAGAAACAA GCACTCGAG	60 120 180 240 300 339
(2) INFORMATION FOR SEQ ID NO:107:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 439 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:	
GAATTCGGCC TTCATGGCCT ACATCATGTC AAAGAGTACT ACATACAGTT TGGAATCTCC TAAAAGACCCG GTACTACCAG CTCGTTTCTT CACTCAACCT GACAAGAATT TCAGTAACAC CAAAAATTAT CTGCCTCCTG AAATGAAATC ATTTTTCACT CCTGGAAAAC CTAAAACAAC CAATGTTCTA GGAGCTGTTA ACAAGCCACT TTCATCAGCA GGCAAGCAAT CTCAGACCAA ATCATCACCAA ATGGAAACTG TAAGCAATCC AAGCAAGCAGC TCAAATCCAA GCTCTCCTGG AAGAATAAAG GGGAGGCTTG ATAGTTCTGA AATGGATCAC AGTGAAAATG AAGATTACAC AATGTCTTCA CCTTTGCCGG GGAAAAAAAG TGACAAGAGA GACGACTCTG ATCTTGTAAG GTCTGAATCG GAGCTCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:108:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGAGAGGCA GGTCTAGAAT TCCAAATGTA AAATTTACTA AGGCTTTTCA TGTGGAAGTA GAATGCATAT ATCTTTCTTG ATATAACAAA TGAATTTGGT TGTAGCTAAC GTGTTGTACT AGTAAAGGTC CACCTGCTAA ACTTTTTCTT TTTTGTTGAG GTATAGACAG TAGAGTGATA CCGATACATG AGGAAAATGA GAACTGGAAT GCAGGCCAAA AGCTGGTCCT TTCCAGATGA ATGTAACCAA GACTCGAG	120 180 240 290

- (2) INFORMATION FOR SEQ ID NO:109:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 355 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

GAATTCGGCC	TTCATGGCCT	ACACTCTCAA	ATATGTGGCC	TTTAACGGGA	CCAAAGTAGG	60
AAAGCAGATA	GTGGAAAACT	TCTCTCCCAA	TCAGACCAAG	TTCACGGTGC	AAAGAACGGA	120
CCCCGTGTCA	CGCTACCGCT	TTACCCTCAG	CGCCAGGACG	CAGGTGGGCT	CTGGGGAAGC	180
CGTCACAGAG	GAGTCACCAG	CACCCCGAA	TGAAGCTTAC	ACCAACAACC	AAGCAGACAT	240
CGCCACCCAG	GGCTGGTTCA	TTGGGCTTAT	GTGCGCCATC	GCCCTCCTGG	TGCTGATCCT	300
GCTCATCGTC	TGTTTCATCA	AGAGGAGTCG	CGGCGGCAAG	TACCCAATAC	TCGAG	355
GCTCATCGTC	IGILICALCA	ACAGGAG I CG	COCCOCCANO	INCCOMING	LCONO	333

- (2) INFORMATION FOR SEQ ID NO:110:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 407 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

GAAAAACTG GGTCAAAGAA	TTACGGAAAA	TGTTGGGAAA	TGAAATCTGT	TTATGTATAG	60
TTGGTAATAA AATAGACTTG	GAAAAGGAGA	GACATGTTTC	CATTCAAGAA	GCAGAGTCGT	120
ATGCAGAATC TGTGGGAGCA					180
AGGAACTCTT TCTTGACCTT					240
CAAAAGGCAA TGGCTCTAGT					300
ATGAACCTCA AGCCCAGACC					360
CTANGAATT AAAGACAGA					407

- (2) INFORMATION FOR SEQ ID NO:111:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 395 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

CAATTCCCCCC	ттсатассст	AAAAGAAAGT	ACATTAAAGC	AACTTGCATC	TCAAAACAAT	60
			TCGATTTATT			120
ACATITCICI	TOTAL TOTAL TOTAL	ATGGGATTCC	TTAGAATCCA	TCCTCCTTCC	CAAGCATTTC	180
			CCCCATTTCA			240
			GCTAAACGGC			300
			GAAACACAGG			360
				IIICIMIII	micious	395
TGGAGAGAAT	GTCAAAGGTA	TTGGCCCAGC	TCGAG			

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(2) INFORMATION FOR SEQ ID NO:112:		
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 301 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:		
GAATTCTAGA AACTACAGTA GTGGGACACA TAACATAGAA GTAATCGTCC TGGAAGAAGT AAGAGTGTTC ACCACATATT TTCTGTTCAA GAGAATAATC TGATCCCCTG GCATCATTTA TTCTCCGTAC TGATCACTAC ATCATGGCCC TGTGCTGATT GTGCTGAGCC AGCTCACCAT TCTCATTATT TTTAGATATC AGAGCTTAAA GAACCTTCAG GGTTTATAAA TCTGACCTCA TTTTCTCTTC G	: ATCTCAGTTT 1 : GGGTCCTTTT 1 : GAGGATACCC 2 : AATGTCTCGA 3	60 120 180 240 300
(2) INFORMATION FOR SEQ ID NO:113:		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 268 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:		
GAATTCGGCC TTCATGGCCT AAGCATGCTG TCTTGTGATG GTGATTTCAT CATGGGATTA TTAACGGCAT CCATTTTCTT GGGCGTCAAG TTGTTGCAGC TGCGATGCAG CAGCAAGAAA AACTCATCCA ACAAGAGAGG GCACTGCTAA ATGGAAGAGA AGCTGTGCCC TTCAGATGAA ATATTGCCAA GCCTTCATGC AAGTTCAGCC CATAACAGCA GTCTCGAG	TGTCCACCAT A ACTTTACAGA AAAACTCATT	60 120 180 240 268
(2) INFORMATION FOR SEQ ID NO:114:		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 260 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

GAATTCGGCC TTCATGGC	CT ACCCGCATCC	CAGCTCTATT	ATAAAAAATA	AAGAAGAAGA	60
TAATTCATTT CCTTAAGC	TG CCCTTACACT	ATTAGTCAGG	AATGTTTGTG	TTCACTTCCA	120
CTACATACCT TACGATCT	CT TTTGCTTTGC	TTTTTTTCAG	TCAAGTCTCT	ATTTATGAGG	180
TGGACAAGCA AGATTGTC	GC AAATTTTGCA	CTACTGGCAT	CGATGGAGCC	ATGACAATTT	240
GGGATTTCAA GACCCTCG	AG				260

- (2) INFORMATION FOR SEQ ID NO:115:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 259 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GAATTCGGCC	TTCATGGCCT	AAACATTTTC	TGAAAAACGT	GATAGAAAGA	AGGAGGAGCT	60
GTTTCTAGGA	GGGAAATAAA	TAATTTGGCA	GGAGACTTTT	TGAACTAGAT	ATCTATTGAA	120
TAACAAAGTG	ACAATGTTCC	CCATCCTCTC	ATTTCCATTC	CCAATTTTAC	TTCTCGTCCC	180
AATTCAAATC	ATTCTTACTT	ATGATCGGCG	CTATGTCAGT	GCCTCTCAGC	TGGTCTTCCC	240
AGACCCAGTC	ACCCTCGAG					259

- (2) INFORMATION FOR SEQ ID NO:116:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 238 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

GAATTCGGCC	TTCATGGCCT	AATTACATTT	ATGCAACCAA	GCTATCAAAA	GGACTGGCTG	60
TCCTTGGGAA	TGAAACGTAA	CAAAATCGTC	AATAGAGTAT	TATTGGAAAA	GATTGTTTTC	120
AGTCATGAAC	TAGCTATTTA	AATGAGAAAA	CAAATGTAAT	GATGCTTTCT	GTCATGATTT	180
TATAAATAAA	TGTCAATTGT	AGGAAATTGG	TAAAATAAAA	GAAAAAGAAA	AACTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:117:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 279 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

GAATTCGGCC	AAAGAGGCCT	ACCCTAGACC	TGTTTTCTGT	TCTCTACTCT	TGAAATGCTA	60
ATCACCTTCA	TGACCAGAGT	CCGCTATTGC	AGTTTGTGGT	TGACAGGCAT	CTCTCACTCA	120
CTGTGCTGCA	<b>ልርጥሮል ልርጥሮጥ</b>	TTATCTTCAA	CCAAACAGGG	CCTCCCCGCA	GCTTTCCCAC	180
CIGIOCIGON	MC1 CANCICI			00100000		
TOTOTORO	TCCCACTCCA	TOCAGGGTTT	CCAAAGTGTA	AGACCCCCGA	ATTTATCTTT	240
IGCCNCICNG	IGGCACICCA	ICCAGGGIII	CCTTTOLOTIC	110110000011		
CACACTECCA	TOTOCOTOCA	CCCCTCATCC	አ አጥጥር አጥር አ			279
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- (2) INFORMATION FOR SEQ ID NO:118:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 656 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

GAATTCGGCC	AAAGAGGCCT	AGTTATAATG	ATGGAAGAAG	TGGAAAAACT	TTGTGATCGG	60
CTTGAACTGG	CAAGCTTACA	GTGCTTGAAT	GAAACACTCA	CATCATGCAC	AAAAGAATAG	120
GAAAGGCTGC	TTTGGAAAAA	CAGATAGAAG	AAATAAATGA	GCAAATCAGA	AAAGAGAAAG	180
AGGAAGCTGA	GGCTCGTATG	CGACAAGCAT	CTAAGAACAC	AGAGAAATCA	ACTGGTGGAG	240
GTGGAAATGG	AAGTAAAAAT	TGGTCAGAAG	ATGATCTACA	ATTACTAATT	AAAGCTGTGA	300
ATCTGTTCCC	TGCTGGAACA	AATTCAAGAT	GGGAAGTTAT	TGCTAATTAC	ATGAACATAC	360
ATTCTTCCTC	TGGAGTCAAA	AGAACTGCCA	AAGATGTTNT	TGGCAAAGCA	AAGAGTCTCC	420
AAAAACTTGA	CCCTCATCAA	ANAGATGACA	TAAATATAAA	GGCATTTGAT	AAGTTCAANA	480
AAGAACATGG	AGTGGTACCT	CAAGCAGACA	ACGCAACGCC	TTCAGAACGA	TTTGAAGGTC	540
CATATACAGA	CTTCACCCCT	TGGACAACAG	AAGAACAGAA	GCTTTTGGAA	CAAGNTTTGA	600
AAACATACCC	AGTAAATACA	CCTGAAAGNT	GGGAAAANAT	AGCAGAAAGT	CTCGAG	656

- (2) INFORMATION FOR SEQ ID NO:119:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 523 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

GAATTCGGCC A	AAAGAGGCCT	AGAGACAAAT	AGGTGATACT	GAATTTTATA	CTGTTTTCTA	60
CTTTTCCATT A	AAAACATTGG	CACCTCAATG	ATAAAGAAAT	TTAAGGTATA	AAATTAAATG	120
TAAAAATTAA 1	TTTCAGCTTC	ATTTCGTATT	TCGAANCAAT	CTANACTGTT	GTGATGAGTG	180.
TATGTCTGAA (	CCTGTAATTC	TTAAAANACT	TCTTAATCTT	CTAGAAGAAA	AATCTCCGAA	240
GAGCTCTCTC T	TAGAAGTCCA	AAATGGCTAG	CCATTATGCT	TCTTTGAAAG	GACATGATAA	300
TGGGACCAGG A	ATGGTTTTTT	GGAGTACCAA	GCAAGGGGAA	TGGAGCACTT	TAAGGGCGCC	360
TGTTAGTAAC A	ATGAATTGGA	AATCTGTGTC	GAGTACCTCT	GATCTAAACG	GTAAAACAAG	420
CTGCCTGGAG A	AGCAGCTGTA	CCTAACAATA	CTGTAATGTA	CATTAACATT	ACAGCCTCTC	480
AATTTCAGGC A	AGGTGTAACA	GTTCCTTTCC	ACCAGATCTC	GAG		523

- (2) INFORMATION FOR SEQ ID NO:120:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 111 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

GAATTCGGCC AAAGAGGCCT AATTTCTTC TGTGATATGA GAATTTCTTT TCTTTCAGCA 60 GCTTTACCTG CATTTGGCTT TGGCTTTTGC AATCGGCCCC TCATTCTCGA G 111

- (2) INFORMATION FOR SEQ ID NO:121:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 579 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

GAATTCGGCC	AAAGAGGCCT	AACCGCGGCC	GCTACTTCGG	CCTCTTTGGA	AAAAAAAAG	60
TGAAAGAAAA	NATCACAATA	CAGGGAAAAG	TGAGCTAAAA	ATCCCGGCAT	TAAAAAGCCC	120
TTGATGTGGT	CCTGAATCGG	CTATTTCTAT	CTGTTCCCTG	AGCCTAACCT	CAGCGCTGGC	180
CTCTCTAAAC	CTCTTTTCAG	TCCTCTCATT	TTGAAAACAG	GGCCCATTAC	ACATTCTCTG	240
AAAGCTTGCT	GAGTGATTTA	ACCACATAGT	CTAGGGGAGG	CACTCATCAA	ACATAAGGCC	300
TCTCTTTTTG	ATTTTTATCC	TATAGTGGTA	TCTATCTAGA	GGCTGGTGAA	GACAGTGTGG	360
TGGAAGGAAA	GTGGGAAGGA	TACACTGAAA	TAGGACATAG	ACGTAGAGGG	GAGTCGATGG	420
TCATCTGGCT	TGATAGGGAA	AGTTAGAGAG	CTCTCCTGAA	CCACAGTTAC	AGAGCTTGGG	480
ATTATAACAC	ACACAGCCCC	AGAGAAAACA	CTTTGTTTAC	CATATTTCCT	CTTCTGCTGG	540
GGCTCTGGCA	CCTTAATTGG	TCAAAAGGCA	GCACTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:122:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 257 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

GAATTCTAGG	AATGGGTCGG	GAAGTTGAGA	ATCTTATATT	AGAAAATACA	CAACTGTTGG	60
AAACCAAAAA	TGCTTTGAAC	ATAGTGAAGA	ATGATTTGAT	AGCAAAAGTG	GATGAACTGA	120
CCTGTGAGAA	AGATGTGCTG	CAAGGGGAAT	TGGAGGCTGT	GAAGCAAGCC	AAACTGAAAC	180
TAGAGGAAAA	GAACAGAGAA	TTGGAGGAAG	AGCTTAGGAA	AGCTCGGGCA	GAAGCTGAAG	240
ATGCAAGGCA	ACTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:123:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 421 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

GAATTCCTGT AACTCGGAAA AG	GATATCAGA GGAATGTT	G TGGCATCAGA	GAGAAAGATG	60
AGAGCTCACC AGGTGCTCAC CT	TTCCTCCTG CTCTTTCGT	G ATCACCTCGG	TGGCCTCTGA	120
AAACGCCAGC ACATCCCGAG GC	CTGTGGGCT GGACCTCCT	C CCTCAGTACG	TGTCCCTGTG	180
CGACCTGGAC GCCATCTGGG GC	CATTGTGGT GGAGGCGGT	re ecceeeecee	GCGCCCTGAT	240
CACACTGCTC CTGATGCTCA TO	CCTCCTGGT GCGGCTGC	C TTCATCAAGG	AGAAGGAGAA	300
GAAGAGCCCT GTGGGCCTCC AC	CTTTCTGTT CCTCCTGGG	G ACCCTGGGCC	TCTTTGGGCT	360
GACGTTTGCC TTCATCATCC AC	GGAGGACGA GACCATCTO	C TCTGTCCGCC	GGTCACTCGA	420
G				421

- (2) INFORMATION FOR SEQ ID NO:124:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 123 base pairs
    - (B) TYPE: nucleic acid

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- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

GAATTCTAGA	CCTGCCTCGA	GAAAATGAAA	GTCTTTTCTC	AAAAAACTTC	TTCCCAGGTC	60
TGTGAAGCAG	CACAGTGGCC	CCTTCTGGCT	CTCACCTTGT	ACCTCGTCCT	TGTTTGCCTC	120
GAG						123

- (2) INFORMATION FOR SEQ ID NO:125:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 303 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

GAATTCGGCC	TTCATGGCCT	AAGATGGCGT	CTCACAAATC	ATATGCCAAT	TACTGAAATT	60
GGAGGTGAAA	ATATTCTAGA	TTTATTGTGG	GATATATA	TTTTATGGTG	TATGGCTCCC	120
AACACCACAT	GCCACTGAAC	TATATAAAAC	TTTATGTCAG	AACACTTACT	TGTGTCATAT	180
GTAACCCTCT	TGCAAATAAT	ATTCCCTTAC	TACAGATCTG	TCCCACTGTT	CTCAGAAAAT	240
AAAACATGGG	AACGTTGGAA	TGTCTCCTTG	CTATAAGATA	TTGAATTCTA	GACCTGCCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:126:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 508 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

GAATTCGGCC	TTCATGGCCT	ATGAAGACAA	AGCTAACTTA	CAAAAGCAGC	TGGTTGAAGC	60
AATGAATACG	CAATTAGAAC	TTTCAGAACA	ACTTAAATTT	CAGAACAACT	CTGAAGATAA	120
TGTTAAAAAA	CTACAAGAAG	AGATTGAGAA	AATTAGGCCA	GGCTTTGAGG	AGCAAATTTT	180
ATATCTGCAA	AAGCAATTAG	ACGCTACCAC	TGATGAAAAG	AAGGAAACAG	TTACTCAACT	240
CCAAAATATC	ATTGAGGCTA	ATTCTCAGCA	TTACCAAAAA	AATATTAATA	GTTTGCAGGA	300
AGAGCTTTTA	CAGTTGAAAG	CTATACACCA	AGAAGAGGTG	AAAGAGTTGA	TGTGCCAGAT	360
TGAAGCATCA	GCTAAGGAAC	ATGAAGCAGA	GATAAATAAG	TTGAACGAGC	TAAAAGAGAA	420
CTTAGTAAAA	CAATGTGAGG	CAAGTGAAAA	GAACATCCAG	AAGAAATATG	AATGTGAGTT	480
AGAAAATTTA	AGGAAAGCCA	CCCTCGAG				508

- (2) INFORMATION FOR SEQ ID NO:127:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 713 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

GAATTCGGCC	TTCATGGCCT	AGCGGCAGTC	CAGATCACGG	TTACTGTGAC	CTGACTGGAG	60
AAAAATTATG	TGTCTGCAAT	GATAGTTGGC	AAGGTCCTGA	TTGTTCTTTG	AATGTTCCCT	120
CTACTGAGTC	TTACTGGATT	CTGCCAAACG	TTAAACCCTT	CAGTCCTTCT	GTAGGTCGGG	180
CTTCACATAA	AGCAGTTTTA	CACGGGAAAT	TTATGTGGGT	GATTGGTGGA	TATACTTTTA	240
ACTACAGTTC	TTTTCAAATG	GTCCTAAATT	ACAATTTAGA	AAGCAGTATA	TGGAATGTAG	300
GAACTCCATC	AAGGGGACCT	CTCCAGAGAT	ATGGACACTC	TCTTGCTTTA	TATCAGGAAA	360
ACATCTTTAT	GTATGGAGGC	GCCCCAAGGC	CCGACCCCTC	CCCCAAAGGG	GCAGTCCCCT	420
TCTTGCAGGT	CTCAGCTTGC	GGGGTGGGGG	GAGTCATGCC	CAGGGGAGGA	GACTTTTTAT	480
CTGGAGGGGA	GAGAAGGATT	CTAGGGGTGT	GGAGTTGGAG	AAAGAGGCTT	CCTTGAGCCA	540
CCCTTCCCAC	CCCAGCCCTT	GNTGGTCCCT	AGGCCAAGCC	ACCAAGTGAA	ACCTTCCAGG	600
ATACTAGCCC	GCCAGCTGTG	GGCCCCAGAA	AGCCAGCCTG	CCTTTTAGCA	CTTGGATACA	660
CACAGACCCA	CGGAGCTCTC	TGTGTTTGGC	CTCTCACACA	CACACAACTC	GAG	713

- (2) INFORMATION FOR SEQ ID NO:128:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 277 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

GAATTCGGCC	AAAGAGGCCT	AAGAGATTCA	GGACCTGCAG	AGTCGCCAGA	AGCATGAAAT	60
TGAATCTTTG	TATACTAAAC	TGGGCAAGGT	TCCCCCTGCT	GTCATTATTC	CCCCAGCTGC	120
TCCTCTGTCG	GGGAGAAGAA	GGAGACCCAC	TAAAAGCAAA	GGCAGCAAGT	CTAGTCGCAG	180
CAGCTCATTG	GGCAATAAAA	GCCCACAGCT	TTCAGGCAAC	CTGTCTGGTC	AGAGTGGAAC	240
TTCAGTCTTA	CACCCCCAAC	AGACCTCCAC	AGTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:129:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 670 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

GAATTCGGCC	TTCATGGCCT	AAGGCTACCG	ATATTGGAGA	AGCTAACTAT	GGGTTTTACC	60
ACACGTAACA	GCTTTTTGGT	GAAATCAGTT	GTTATACTAA	TAAGCTTTCC	TCTAATTGAT	120
TTGAGTTTTG	GTTTTTGTGT	TTGTATTTGC	GGGTTTTGTC	TCTTTTGTTT	TCTTGTTTTT	180
AGTAAATTGG	TTTTTCTTCA	ATGTATTTTC	TTAAAGTAGT	CTAGCTTTAC	CCAGTTTCCT	240
TGGCAAATTG	AAATTTAGGC	CATGAAGGCC	GAATTCGGCC	TTCATGGCCT	ACTCAGCCTC	300
CCCAAGTAGC	TGGGACTACA	GGCGTGTGCC	ACTATTCTCA	GCTGATTTTT	GTATTTTTAG	360
TGGAGACGGG	TTTTTGCCAT	GTTAGTTGGC	CAGGATGGTC	TCTCTCTCGA	CGTCGTGATC	420
CGCCCGCCTC	GGCCTCCCAA	ATTGCTGTGA	TGACAGGCGT	GAGCCACCCC	GCNTGGCNTG	480
TCCTACCTCT	TTTTTAAGAC	CTCTTCCTGT	AAGCACTGGA	TAATCTACTT	CTAGTAATGT	540
GAAACTGACT	ATATNTTGAA	TTCATATGTT	TTCAATCAAC	CTGTTGCAGT	TTATATTTCA	600
CACCCTGCTC	CCTTTTGACA	GTTTAAGTAC	AGATAGTCTC	AGCAGTTCTG	GAGACCATGT	660
AAAGCTCGAG						670

## (2) INFORMATION FOR SEQ ID NO:130:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 462 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

GAATTCGGCC	TTCATGGCCT	ACGACTCTGC	TCTATTTACC	ACTATCAGGC	CAATCCTCCT	60
GACATGCTGT	TAATATTTAG	AAATATTTCT	CCAACATTCA	GAGTGCCTGG	GTACCACACA	120
TGGATGCGAC	TAAGATTCTT	AAGTCTGGTT	TCTAAGAGCT	TCTTCAATGT	CTCCAACTAT	180
CTTTTCAGGC	TCATGTTTGA	GACCTTCCTT	TCAAGAATAA	TTTGCTTGTG	ATCTGGTTCA	240
AGCTGAACAG	AGATTTTCAG	ATGACTCCCA	AACTATCTGC	AACACATCAG	CCCTATTAAC	300
TCTTCTCAGA	ATGCTCATAC	AGAAGCCATG	CCAGTGCACA	AAAGCCACTT	CTGACACCTG	360
GCCCTGTCTG	ACTCATGGAT	TTCTTCCAGG	ATTGCTCTTT	CTATCTGCTT	TAAACCTCCT	420
TGTCAATTGA	CTTTCCTTGG	CTCCCAACCC	ACTTTACTCG	AG		462

## (2) INFORMATION FOR SEQ ID NO:131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 535 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GAATTCGGCC	TTCGTGGCCT	ANATATTCTA	AGCATTCAAT	TTGTCAGTTT	CTGAGATTTT	60
CTTTCCATCT	TAGTTTTTTA	GAAGTCAGAA	AATGACTTTT	CACATTCAGT	TAGGGTATAT	120
AACAATGTTA	ACGTAAGTTT	ATGAGCTGAG	TAGGTAGTTA	ATAAACATCC	TTTTAAGTTG	180
TAATGCTTTG	AAATAGCATA	${\tt TTAAAGGGTT}$	GCAAGGGAAA	ATTGGAACAT	CAGTGTGAGT	24.0
TATTTTACAG	TCATTTGTAG	GTCTGTTTGT	GACCTTGGCC	TTTTCACACT	TGTTTGTCTA	300
TCACCTTTAG	TATATTACTC	TTTGGCACAG	GTTGTCTAAT	CACATTAATT	TTTGCATCAA	360
AAATCCCTTG	GTTTAGTGAT	TCTTAATGAT	${\tt GTTTATTTTG}$	GAAAGTCATG	GACCTGAATT	420
CTTTGAGTAG	TTCATGAAAA	CCATATACCT	TTCCCAGAGA	AATGGGGTGC	ATATAATTTC	480
AGGAAGTTCA	AGGTAGGGAA	AACAAGCTAA	AAATCCCAAC	TTATTTCATC	TCGAG	535

- (2) INFORMATION FOR SEQ ID NO:132:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 401 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

GAATTCGGCC	TTCATGGCCT	AAGGGGATCA	TCAAAGATGT	TGGACACCTT	GTGTTCAAAT	60
CTTGGTTCAG	GTGCGGCCTG	TGCAGATCGG	CTTTTTGGTT	TGGTTGTCTT	GGCCTGGATA	120
CCAGTGGAGA	AGATGTCATC	CATATCATCA	TCAAATATAG	ACTTGGTTTC	CACTTTCTTT	180
TTGGACTTTT	CTTTTGGTTT	TACAGTTAAG	TCAGCAAAGA	TATCAATGTT	ATCATCAAAT	240

AAATTAGATT	CCAATGTTTT	CTCCTTCTCT	CTGGTTTTCT	GAGAGGGTTT	AATTGCTTCC	300
GTAGCAAATA	TATCATCCTC	AAAAATATCT	TGTGTTGTTA	ATATGACATC	CTGCTGACTA	360
CTGGATTTTG	TCTCATTCTT	CTTGACTTTC	TGATCCTCGA	G		401

- (2) INFORMATION FOR SEQ ID NO:133:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 497 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

${\tt GAATTCGGCC}$	TTCATGGCCT	AGTAGATGAA	CTAGAAGATG	GATAAACGAA	GATAGATAAA	60
ATGAAGAAAA	ACAAAAGTCA	AGGAGAACTC	AGGCGTCCAA	GAGTGTGTAA	ACAACTTCTG	120
GTGTGAGACG	CGCTACATTG	CGCTAAATGG	CCTGTGCGCT	TCTGGTTTTT	CCCTTCCTCT	180
GTTGATTTTT	TATAGTTGTC	TTTTATTTTA	AACACGCCTC	CCCCCCCCT	TTTTAAACTG	240
ATTTTACCAT	CACTCTCTCT	AGCCCTGCCT	CCCTAGAATT	AGCTGCTTCT	TACCTCCCTT	300
GGATCTGGAA	CTTAAATATT	AACGTGTATA	TAAGTTAATA	GTAAGTAGAC	CGTGAATTTA	360
GAAGAGTAAA	ACAGAATCAT	GAGTACGTAG	TCACTGTGGC	CCCTTTTTTG	CTGGATTTCA	420
AGTTCGTAAG	CATTTTTGGA	AGAGAGTCGA	AGGGGAAGGG	GTGGCTTGCC	AGTCAGTTGA	480
GTGATGCATG	GCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:134:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 362 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

GAATTCGGCC	TTCATGGCCT	AGGCTGGTCA	TTGAGAGTGT	TGGTGCAGTC	AAACTGGAAC	60
ACGATGTGAT	TGGTAAACAT	GTGCTTGATA	CATCGAACAA	AATATTCTGT	CTCTGCTTCT	120
GTAAGTTGAA	CAGGCTCAGA	AGACTTGAAC	${\tt AAGGGTCCTA}$	TATTCAGAAA	CTCAGGAATG	180
GCAGCCAATT	GTTCTTGGGG	ATATATTTCT	AATGAAGTGC	TAGACTATCC	AATTACTTAA	240
TTTCTTATAC	CTTTAGATAA	TCAGTATGAA	AAGTTCCCAT	TTATAATGGA	AATGAAAATT	300
CTTAACTAAA	CTATACATGT	AATATGTATT	TCTAGAAGAG	AATAAAAACC	CAAGTCCTCG	360
AG						362

- (2) INFORMATION FOR SEQ ID NO:135:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 377 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

WO 98/45437

7	PCT/US98/06956
CATCTTCTGT CACTGCTGGA GTTGCCAGTT CACTCTCAGA AAAAATAG	CC GACAGCATTG 120
GAAATAACCG GCAAAATGCA CCATTGACTT CCATTCAAAT TCGTTTTA	TT CAGAACATGA 180
TACAGGAAAC GTTGGATGAC TTTAGAGAAG CATGCCATAG GGACATTG	TG AATTTGCAAG 240
TGGAGATGAT TAAACAGTTT CATATGCAAC TGAATGAAAT GCATTCTT	TG CTGGAAAGAT 300
ACTCAGTGAA TGAAGGTTTA GTGGCTGAAA TTGAAAGACT ACGAGAAG	AA AACAAAAGAT 360
TATGGGCCCA CCTCGAG	377
(2) INFORMATION FOR SEQ ID NO:136:  (i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 333 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
, ,	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:	
GAATTCGGCC TTCATGGCCT AAGCAAACTT CATGCAGCTG GTGGAACT	AG ATGTGTCTCG 60
AAATGAGATT CCTGAAATTC CAGAAAGCAT TTCATTCTGT AAAGCACT	GC AGGTAGCTGA 120
CTTCAGCGGA AACCCACTGA CTAGGTTGCC AGAAAGCTTT CCTGAATT	AC AGAATTTAAC 180
ATGTCTTTCT GTAAATGACA TCTCACTACA GTCTCTACCT GAAAATAT	TG GCAATCTTTA 240
TAACCTGGCT TCACTGGAAC TGAGAGAGAA TCTTCTTACA TATCTTCC	TG ACTCTCTTAC 300
CCAGCTGCGA AGACTAGAAG AACTTGACTC GAG	333
(2) INFORMATION FOR SEQ ID NO:137:	

- . (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

GAATTCGGCC AATGAAGCCT ACTTTAGTAT TTTGGCACTT CCTAATTGAC ACCTTGGG	AG 60
ACTGCAGGAA GGGAACGAGA ATCATTNNTA GGNTATTTGT GTGTGTGTGT GGTTTTTT	TT 120
TTTTTTTGGA AGACAGAGTC TCACACTTTT GCCCAGGCTG GAGTGCAGTG GCGTGATC	TC 180
GGCTCACTGC AACCTCTGCC TCCAGGGTTC AAGCGATTCT CTTGCCTCAG CTTCCCGA	GT 240
AGCTGGGATT ACAGGCACAC GCCACAACGC CTGGCTAATT TTTATATTTT TAGTAGAG	AC 300
AGTCTCGAG	309

- (2) INFORMATION FOR SEQ ID NO:138:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 599 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

GAATTCGGCC AAAGAGGCCT AAACTCAGAA TGGTGCTACT TGAAGACTCT GGATCTGCTG 60 ACTTCAGAAG ACATTTTGTC AACCTGAGTC CCTTCACCAT TACTGTGGTC TTACTTCTCA 120

GTGCCTGTTT	TGTCACCAGT	TCTCTTGGAG	GAACAGACAA	GGAGCTGAGG	CTAGTGGATG	180
GTGAAAACAA	GTGTAGCGGG	AGAGTGGAAG	TGAAAGTCCA	GGAGGAGTGG	GGAACGGTGT	240
GTAATAATGG	CTGGAGCATG	GAAGCGGTCT	CTGTGATTTG	TAACCAGCTG	GGATGTCCAA	300
CTGCTATCAA	AGCCCCTGGA	TGGGCTAATT	CCAGTGCAGG	TTCTGGACGC	ATTTGGATGG	360
ATCATGTTTC	TTGTCGTGGG	AATGAGTCAG	CTCTTTGGGA	TTGCAAACAT	GATGGATGGG	420
GAAAGCATTA	TTGCAATCAC	AATGAAGATG	CTGGCGTGAC	ATGTTCTGAT	GGATCAGATC	480
TGGAGCTAAG	ACTTAGAGGT	GGAGGCAGCC	GCTGTGCTGG	GACAGTTGAG	GTGGAGATTC	540
AGAGACTGTT	AGGGAAGGTG	TGTGACAGAG	GCTGGGGACT	GAAAGAAGCT	GAACTCGAG	599

- (2) INFORMATION FOR SEQ ID NO:139:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 541 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

GAATTCGGCC	TTCATGGCCT	AACCTTCCTG	AATATCTGCC	GTTTGTCCTG	CAAGAAATAA	60
CTAGTCAACC	CAAAAGGCAG	TATCTTTTAC	TTCATTCCTT	GAAGGAAATT	ATTAGCTCTG	120
CATCAGTGGT	GGGCCTTAAA	CCATATGTTG	AAAACATCTG	GGCCTTATTA	CTAAAGCACT	180
GTGAGTGTGC	AGAGGAAGGA	ACCAGAAATG	TTGTTGCTGA	ATGTCTAGGA	AAACTCACTC	240
TAATTGATCC	AGAAACTCTC	CTTCCACGGC	TTAAGGGGTA	CTTGATATCA	GGCTCATCAT	300
ATGCCCGAAG	CTCAGTGGTT	ACGGCTGTGA	AATTTACAAT	TTCTGACCAT	CCACAACCTA	360
TTGATCCACT	GTTAAAGAAC	TGCATAGGTG	ATTTCCTAAA	AACTTTGGAA	GACCCAGATT	420
TGAATGTGAG	AAGAGTAGCC	TTGGTCACAT	TTAATTCAGC	AGCACATAAC	AAGCCATCAT	480
TAATAAGGGA	TCTATTGGAT	ACTGTTCTTC	CACATCTTTA	CAATGAAACA	AAAGTCTCGA	540
G						541
	CTAGTCAACC CATCAGTGGT GTGAGTGTGC TAATTGATCC ATGCCCGAAG TTGATCCACT TGAATGTGAG TAATAAGGGA	CTAGTCAACC CAAAAGGCAG CATCAGTGGT GGGCCTTAAA GTGAGTGTGC AGAGGAAGGA TAATTGATCC AGAAACTCTC ATGCCCGAAG CTCAGTGGTT TTGATCCACT GTTAAAGAAC TGAATGTGAG AAGAGTAGCC TAATAAGGGA TCTATTGGAT	CTAGTCAACC CAAAAGGCAG TATCTTTTAC CATCAGTGGT GGGCCTTAAA CCATATGTTG GTGAGTGTGC AGAGGAAGGA ACCAGAAATG TAATTGATCC AGAAACTCTC CTTCCACGGC ATGCCCGAAG CTCAGTGGTT ACGGCTGTGA TTGATCCACT GTTAAAGAAC TGCATAGGTG TGAATGTGAG AAGAGTAGCC TTGGTCACAT TAATAAGGGA TCTATTGGAT ACTGTTCTTC	CTAGTCAACC CAAAAGGCAG TATCTTTTAC TTCATTCCTT CATCAGTGGT GGGCCTTAAA CCATATGTTG AAAACATCTG GTGAGTGTGC AGAGGAAGGA ACCAGAAATG TTGTTGCTGA TAATTGATCC AGAAACTCTC CTTCCACGGC TTAAGGGGTA ATGCCCGAAG CTCAGTGGTT ACGGCTGTGA AATTTACAAT TTGATCCACT GTTAAAGAAC TGCATAGGTG ATTTCCTAAA TGAATGTGAG AAGAGTAGCC TTGGTCACAT TTAATTCAGC TAATAAGGGA TCTATTGGAT ACTGTTCTTC CACATCTTTA	CTAGTCAACC CAAAAGGCAG TATCTTTTAC TTCATTCCTT GAAGGAAATT CATCAGTGGT GGGCCTTAAA CCATATGTTG AAAACATCTG GGCCTTATTA GTGAGTGTGC AGAGGAAGGA ACCAGAAATG TTGTTGCTGA ATGTCTAGGA TAATTGATCC AGAAACTCTC CTTCCACGGC TTAAGGGGTA CTTGATATCA ATGCCCGAAG CTCAGTGGTT ACGGCTGTGA AATTTACAAT TTCTGACCAT TTGATCCACT GTTAAAGAAC TGCATAGGTG ATTTCCTAAA AACTTTGGAA TGAATGTGAG AAGAGTAGCC TTGGTCACAT TTAATTCAGC AGCACATAAC TAATAAGGGA TCTATTGGAT ACTGTTCTTC CACATCTTTA CAATGAAACA	GAATTCGGCC TTCATGGCCT AACCTTCCTG AATATCTGCC GTTTGTCCTG CAAGAAATAA CTAGTCAACC CAAAAGGCAG TATCTTTTAC TTCATTCCTT GAAGGAAATT ATTAGCTCTG CATCAGTGGT GGGCCTTAAA CCATATGTTG AAAACATCTG GGCCTTATTA CTAAAGCACT GTGAGTGTGC AGAGGAAGGA ACCAGAAATG TTGTTGCTGA ATTCTAGGA AAACTCACTC TAATTGATCC AGAAACCTCC CTTCCACCGC TTAAAGGGGTA CTTGATATCA GGCTCATCAT ATGCCCGAAG CTCAGTGGTA ACGGCTGGTG AATTTACAAT TTCTGACCAT CCACACACCTA TTGAATCACCT GTTAAAGAAC TGCATAGGTG ATTCCTAAA AACTTTGGAA GACCCAGATCT TGAATGTGAG AAGAGTAGCC TTGGTCACAT TTAATTCAGC AGCACATAAC AAGCCATCAT TAATAAAGGGA TCTATTGGAT ACTGTTCTC CACATCTTA CACATGAAACA AAAGTCTCGA G

- (2) INFORMATION FOR SEQ ID NO:140:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 403 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

CTTCATGGCC	TAGTGGTTCT	TCTGAAATCG	GCCTTCAGAC	ACCTGTCTTT	GGTAGTACCA	60
ATATCTAAGA	AGTGGTTTCA	GTTCAATTTT	GTTTTCCTCC	ATGCCAGAGA	GAAGCCACAG	120
TTTCCTAAGC	TGGGGAGGAG	GTATATCCTT	CAAGAGATCG	GCTTGTTAGA	ATAGACCACT	180
TAACACCATA	TGAAAAAGCA	ACAGACTGAA	ACATGGATGT	CCTCAAGAAG	GGCTGCTGAC	240
ACCTATGATT	TGGCAAGGAG	ATAAATAACA	GAATGTGCAA	AGGGTCATAA	GAGTGCAGAC	300
ACCCTAATGT	CTGTTGGCTG	GAAGGTCAGA	GCAGTTCACC	AGTGAAAATG	GGTACGCCAT	360
GAAGGCCGGC	CTTCATGGCC	TATAGGCCAT	GAAGGCCGAA	TTC		403

- (2) INFORMATION FOR SEQ ID NO:141:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 439 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

GAATTCGGCC	TTCATGGCCT	AGTCCTCATC	TGCTGGCATT	TTGTGGGGTG	TTAGTGCCAA	60
ACTTGAATAG	GGGCTGGGGT	GCTGTCTTCC	ACTGACACCC	AAATCCAGAA	TCCCTGGTCT	120
TGAGTCCCCA	GAACTTTGCC	TCTTGACTGT	CCCTTCTCTT	CCTACCTCCA	TCCATGGAAA	180
ATTAGTTATT	TTCTGATCCT	TTCCCCTGCC	TGGTCTAGCT	CCTCTCCAAA	CAGCCATGCC	240
CTCCAAATGC	TAGAGACCTG	GGCCCTGAAC	CCTGTAGACA	GATGCCCTCA	GAATTGGGGC	300
ATGGGAGGGG	GGCTGGGGGA	CCCCATGATT	CAGCCACGGA	CTCCAATGCC	CAGCTCCTCT	360
CCCCAAAACA	ATCCCGACAA	TCCCTTATCC	CTACCCCAAC	CCTTTGCGGC	TCTGTACACA	420
TTTTTAAACC	TGGCTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:142:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 292 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

GCGATTGAAT	TCTAGACCTG	TGTGTCTAGC	TGTGATGGAA	TCTGAAATGA	AGTTTGACAA	60
GGACCATGAT	GGACTCATTG	AAAATGGAGG	CTATGCAGAC	CAGACCTATG	ATGGATGGGT	120
GACCACAGGC	CCCAGTGCTT	ACTGTGGAGG	GCTGTGGCTG	GCAGCTGTGG	CTGTGATGGT	180
CCAGATGGCT	GCTCTGTGTG	GGGCACAGGA	CATCCAGGAT	AAGTTTTCTT	CTATCCTCAG	240
CCGGGGCCAA	GAAGCCTATG	AGAGACTGCT	GTGGAATGGC	CGCTTACTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:143:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 457 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

GAATTCGGCC	TTCATGGCCT	AGGGAGGCTG	AGGTGGGAGG	CTCACTGGAG	GCCAGGAGTT	60
CGGAACCAGC	CTGAGCAACA	TAGGGAGACC	TCAGCTCTAC	AACTGAAAAA	AAGATAGCCA	120
GGTGTGTTCA	TGGTGGCACC	TGTCTGTATT	CCAGCCGCTT	GGGAGGCTGA	GGCAGGAGGT	180
TTGCTTGAGT	CCAGGAGTTT	GAGGTTGCGG	TGAGCTACAC	AATGAGCTAT	GGTGGCACTA	240
CTACACTCCA	GCCTGGGCCA	TAGAGTAAGG	CCCTGTCTCT	AACTGGAAGT	CCAAAGAGGG	300
ATCTACTTCC	TAGACTATTA	ATTTAATAGA	TCAATAAATT	AATCAAGAAT	ATGATTTTTT	360
TCTCATCTTT	CTCTGTAGTC	ATATTTTATA	CAGACTTTTT	GTTTAAGTAA	TCTCTCTTTA	420
TGGGCAGACA	ATGATTTCAG	AAACACCCTG	CCTCGAG			457

- (2) INFORMATION FOR SEQ ID NO:144:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 388 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

GAATTCGGCC	TTCATGGCCT	AGTCAGCCGT	GACTGCACCA	CCATACTCCA	GCCTGGGTGA	60
CAGAGCGAGA	TCTTGTCTTA	AAACAAAACA	AAACAAAACC	CAGACTTCCT	ATAATTCCTA	120
AAAATAAATG	TGGGTTTGAG	AGGCCTACCT	TGAAATGTAC	AAGATCCTGG	CCAGACTTCA	180
CCTATCTAAC	AATATGCTAG	TAACTATTTG	TTGACATGTC	TTAAAGAAAT	GTTCATCAGG	240
GCCTCAGAAA	GCAAGGCAGA	GAACAGGTCC	CTGAAATTTA	CTAGCTTGCA	CCAAACCATC	300
AGATAAAGAT	AGGTTAATAT	TTGACAGAAA	AAACTCTTCA	AAAAGAGACA	GTGAAATACT	360
CTTGAGATGA	ATCCAGGCGG	CTCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:145:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 303 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

GAATTCGGCC T	TCATGGCCT	AGGCAGTGGA	GGCCTCTGTA	ATTCTAGCAT	ACAGGTGGCA	60
AGTTATTACA T	TATTTCTTT	CCTCCTGTCT	ACCTGCAGTT	GGTTTTATGT	GGGGCGTTAG	120
TACACTTCCC A	AAGGGCTTG	CCCGCAGGTG	AGAGGTGCAC	ATTGAACTCC	CTCACCAGGC	180
AGATGGGAAG I	GTGGCCATG	AGAGAGAGCT	TCAGGGGCCC	TGGGTTTATG	ACATCGCTGG	240
GCCAGGAATG A	GGTTAATAT	TTTTAATGGC	GAAGGGTGAG	CCCCGTTATT	ACCCGAGCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:146:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 376 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

GAATTCGGCC	TTCATGGCCT	ACTGGATGGC	ATCTACTTCG	TATGACTATT	GCAGAGTGCC	60
CATGGAAGAC	GGGGATAAGC	GCTGTAAGCT	TCTGCTGGGG	ATAGGAATTC	TGGTGCTCCT	120
GATCATCGTG	ATTCTGGGGG	TGCCCTTGAT	TATCTTCACC	ATCAAGGCCA	ACAGCGAGGC	180
CTGCCGGGAC	GGCCTTCGGG	CAGTGATGGA	GTGTCGCAAT	GTCACCCATC	TCCTGCAACA	240
AGAGCTGACC	GAGGCCCAGA	AGGGCTTTCA	GGATGTGGAG	GCCCAGGCCG	CCACCTGCAA	300
CCACACTGTG	ATGGCCCTAA	TGGCTTCCCT	GGATGCAGAG	AAGGCCCAAG	GACAAAAGAA	360
AGTGGAACAA	CTCGAG					376

- (2) INFORMATION FOR SEQ ID NO:147:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 412 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

GAATTCGGCC	TTCATGGCCT	AATGGAAAGG	ACAAGGAAAA	GGGAGAAGGG	GTGAGAGTCT	60
GTCCTAGGGG	CCAACGAGAA	CAGTGAGCTG	TTTCAGGGGA	GCCATTTCCT	TGTCCATGCT	120
CACAAGCCTG	TGGATTCTTC	CCCCTCTGCA	GGAAATTACC	TGATGTTCCA	AACCCCCTCC	180
AGATCCTGTA	TATCCGCAGC	ATCTCCCCTT	TCCCTGAGCT	GGAACAGTTT	CTACAGGACA	240
CTATCAAGAG	GTACTAGGGG	CCTGGAGGTT	TGGGCTCCAA	GAGAAGCTTG	ACAGAGCCCA	300
CGCCCGACCC	CTACTTCTGT	TTCTTCCTAA	GGTATAATCT	GCAGATGTTG	GAAGCTGAGG	360
GCAGCATGAA	GCAGGCCCTG	GGTGAACTGC	AGGCACAGCA	GCCCCCCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:148:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 335 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

GCCTGGCCAT	CCGGAGAGCT	AAGAACCTCA	GGCGGCTGCT	GTACGTNTCA	TGCAACCCCC	60
GGGCAGCCAT	GGGCAACTTT	GTGGACCTCT	GCAGAGCCCC	ATCTAACCGG	GTGAAGGGCA	120
TTCCCTTCCG	GCCGGTCAAG	GCTGTGGCAG	TGGACCTGTT	CCCGCAGACC	CCTTCTTTTT	180
TCATACTTAT	ATGAAAGACT	ACATACTTAA	AATACTGGTG	ATTATATTTA	GGACCTGAAA	240
TCATAAGATT	GTGGTCTTGC	TTTTTACTTA	TTTTTGTATC	TTAGCGATGT	CTAGAGTTAA	300
TAAGTGTTGC	TTTTCTAATC	ACAGCAAATC	TCGAG			335

- (2) INFORMATION FOR SEQ ID NO:149:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 482 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

GGATTCGGCC	TTCATGGCCT	AGTGGGGCAC	TAGGATCATC	ATTTGGGTGA	GAGCCCTCGG	60
CAATGGTGGA	GAGGGAGAAG	TTATCATTGT	GGAGCTCAGA	TGGGGTCCGG	AATTTGTTGG	120
TCCTACGCAG	CTTGGTATTC	TCCGTCTTGA	${\tt GCAGGTAGAG}$	CTTCTTGGCA	AAGAACACCG	180
TCATCATGAA	GAGCAGGAGC	AGGACGAGGG	CAGCCGAGCC	CACGGCCACG	CACATCACCT	240
GGAAGTCGGT	GATGATGGAC	TCGCAGCGCA	TCCCCTTGTG	CCAGATGTAG	TCCTGCGTGT	300
TGCACCTGCA	GAAGGCCCCT	ATGTTCTCCA	CCAGGTAGCA	CTGGCCGCCA	TTGTGACAGT	360
AACTTGGGAA	GAGGTCGCAC	ACTGACCGGC	AGGAGCCGTT	ATGCCGCACA	AAGCCACTGC	420
GGCACTCAGT	GCCATTTTCA	CTGGAGGCCA	AGTCCCTGCC	TGGCTCTCCT	TAGGCCATGA	480
AG						482

- (2) INFORMATION FOR SEQ ID NO:150:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 277 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

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- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

GTTCCTTACT	AACTTTAATG	GCCACAACAT	TTAGGCGAAA	GGGGGGCAAT	CATTGGTGGT	60
TTGGCATTCG	CAGAGACTTC	TGTCAGTTTC	TGCTTGAAAT	TTTCCCATTT	TTAAGAGAAT	120
			AAGATAGTGA			180
			TTGGAAAGAA			240
	GAAATACGTT			000010101A	OTIMINACCC	
1101100000100	OMMINCOIL	CCCCCCCTCT	CCICGNG			277

- (2) INFORMATION FOR SEQ ID NO:151:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 272 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

GCTCGCCCAC TTTATGAAGA GCGATTTCAC	GGCTGCTTGA	ACCATTCGAA	TTTGGATTTG	60
TGTTCAGCAC TTTAAAAGGT TCAACTTTTT	GCTTCTACCC	AGATTGGTCT	CAGGTCTGTC	120
TTCTCCAGAT GACCGGTGGT TTCCTGAGCT	GCATCTTGGG	CTTGGTGCTG	CCCCTGGCCT	180
ATGGCTTCCA -GCCTGACCTG GTGCTGGTGG	CGCTGGGGCC	TGGCCATGGC	CTGCAGGGCC	240
CCCACGCTGC ACTCCTGGCT ACAATACTCG	AG			272

- (2) INFORMATION FOR SEQ ID NO:152:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 308 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

GAATTCGGCC	TTCATGGCCT	AGGGGCGGTG	AAACGTCCTG	AAGAGCGTCC	AGCTCGTGGC	60
CGAGAGGACT	CGGGCGCTCC	CCACGCTGGA	GGCCGTGGAC	CGCTCCCTTT	AAAAGTTGAA	120
ACGGCCGCCG	TTCGGGACGG	CCTGGCGGGA	GGAGGGCCCG	AÇGAGGGGAG	GCTTCAGGGA	180
CAACTGGGGC	TTCTCGACGT	CCACCCTTTT	CAGGGCGCGG	CCCCGGTAGC	CCTCGGGCCG	240
GCCCAGGTAC	AGGAGGTGCT	TCCCGGGACC	CCCGGAGTAC	CTGGAGGGAC	CTCCCGAGGG	300
GACTCGAG						308

- (2) INFORMATION FOR SEQ ID NO:153:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 438 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

GAATTCGGCC	TTCATGGCCT	ACAATCCCAA	ATGTAGGATC	ATGCCCATTG	CCCTAAGCCC	60
AGGCATGAGA	GTCGACATCT	CTCCTCTTAT	ATACAGATCC	AGTCCACAGG	TGAAGTGGGA	120
ACTCTCCAAC	CAGGATTCAG	CACACCATTG	ATGTTGCGAC	TCCTCTACTG	GAACACAGCT	180
TGGAGAAGGG	ATTGGGGCTC	TCATGGCAGG	ATGCAATCCA	CTGTTGAGAT	TGTGACTCAT	240
GCACTTGAAC	CTAAGTCTCA	GGAGTTGTTG	ACTCTTACAC	CCAGCACCCA	GGTGATAGGA	300
CTCTCATGTC	TGGTTCCTGC	CCACAGGTGA	AATTGTGACA	TATACATGGT	CACAGCTCAC	360
AGGTGAGGTG	ATAACTCACA	TACCTGGATC	CAGCTAAGAG	AACAGATTTT	GACTCTGATA	420
TCTTAGGCCA	TGAAGGCC					438

- (2) INFORMATION FOR SEQ ID NO:154:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 297 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

GAATTCGGCT	TCATGGCCTA	CAAGATGACT	AAAGTCTTCA	CTCACCAAGG	AAAAGTGGCT	60
${\tt CTGTATGGCA}$	AGCTGGTGCA	GTCAGCTCAG	AATGAGAGGG	AGAAACTTCA	AATAAAGATA	120
GATGAGATGG	ATAAAATACT	TAAGAAGATC	GATAACTGCC	TCACTGAGAT	GGAAACAGAA	180
ACTAAGAATT	TGGAGGATGA	AGAGAAAAAC	AATCCTGTGG	AAGAATGGGA	TTCTGAAATG	240
AGAGCTGCAG	AAAAAGAATT	GGAACAGCTG	AAAACTGAAG	AGGAGGATGC	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:155:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 395 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

GAATTCGGCC	TTCATGGCCT	AAATTTAGGA	AGGTCAAACG	TGAATCTCCA	TTTGACAAAC	60
GTCCAACTGC	AGCAGAGATT	AAAGTGGAAC	CCACCACTGA	GTCATTGGAC	AAAGAGGGCA	120
AAGGTGAAAT	TAGAAGCCTA	GTGGAGCCAC	TCAGTATGAT	CCAATTTGAT	GATACTGCTG	180
AGCCACAGAA	AGGAAAAATA	AAAGGAAAGA	AACACCATAT	CTCTTCAGGA	ACTATCACAA	240
GCAAAGAAGA	AAAAACTGAA	GAGAAGGAAG	AGTTGACCAN	ACAAGTCAAG	TCTCATCAAC	300
TTGTTAAATC	ACTCTCAAGA	GTGGCTAAAG	AGACTTCAGA	ATCTACCAGA	GTTCTAGAAA	360
GTCCAGATGG	CAAAAGTGAA	CAGCGTAACC	TCGAG			395

- (2) INFORMATION FOR SEQ ID NO:156:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 422 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

GAATTCGGCC	TTCATGGCCT	ACAGAGTACT	GAGTGGAACA	TACGATGATA	GATTTACAAA	60
TAATGTAGCA	TACTTCTACT	TCATTGTATC	TTAAGTTTCT	TGAAATATTG	CTACTGGAGA	120
TTGGAAAGAA	ATCTTAATGT	TATGGGGTAT	TGTCTAAGAA	GCTTTATTTT	AAAACCATCT	180
CATTAAATTT	TGTTGCATTT	TAGATAATCG	TCCCCAGATG	CCATGTTACC	CTAGTGCAGA	240
GTTTGGGGCT	GGATAAGTTT	TTGTTGTAGG	TGGCTATCCT	GTGTTTTGTA	GGGTATTTAG	300
CAGCATCCTG	GCCTTAAAAC	AAAAATGTTT	TCAGACATTG	CCAAATGTCC	CCCGAGCGGT	360
AAAGTCACCC	CCAAGTTGAG	AACCGCTCTA	TACAAAGAGC	TGTTATTAGA	GCCAGACTCG	420
AG						422

- (2) INFORMATION FOR SEQ ID NO:157:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 492 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

GAATTCGGCC	TTCATGGCCT	AGATTGCTTG	AGGCCAGAAG	TTCAAGACAG	GCTGCCCAAC	60
ATAGTGAGAC	CCCCTTCTCT	ACCAAAATTT	TAAAAATGAG	CATGCATCTG	TAGTCCTAGC	120
TATTGGGAAG	GCTGAGGCAG	GAGGATCATC	TGAGCCCAGG	AGTTTGAGGC	TGCAGTGAGC	180
TAAGAAGGTG	CCACTGCACT	GCTGTTGTCT	CTCAGCAGAT	CATTTTCAGC	TTTCTTTGGA	240
GAGTAGCCAT	TAGCAATGCA	AATGTGAAGT	TTGATAGCAC	AATAAATAAA	ACACTGAAAA	300
CTGTAGATGT	TACTTATAAA	ACACTGGCAC	TCAGATAAAT	TGGGTTTGGT	CAAGAAGACA	360
GTGAAGCATA	TCCCTGTTGG	GCCAGAGGCT	GTTATCGTTT	TGCTCTGAAT	TCAAAACCTG	420
ATATGTCTCC	AAATTTGCTT	AGGGTTGTTA	TCCTGGAAAA	TAGAATCTGA	TAGAAGGTGG	480
GCACATCTCG	AG					492

- (2) INFORMATION FOR SEQ ID NO:158:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 505 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

GAATTCGGCC	TTCATGGCCT	ACTGCTTTCG	TGAAGACAAG	ATGAAGTTCA	CAATTGTCTT	60
TGCTGGACTT	CTTGGAGTCT	TTCTAGCTCC	TGCCCTAGCT	AACTATAATA	TCAACGTCAA	120
TGATGACAAC	AACAATGCTG	GAAGTGGGCA	GCAGTCAGTG	AGTGTCAACA	ATGAACACAA	180
TGTGGCCAAT	GTTGACAATA	ACAACGGATG	GGACTCCTGG	AATTCCATCT	GGGATTATGG	240
AAATGGCTTT	GCTGCAACCA	GACTCTTTCA	AAAGAAGACA	TGCATTGTGC	ACAAAATGAA	300
CAAGGAAGTC	ATGCCCTCCA	TTCAATCCCT	TGATGCACTG	GTCAAGGAAA	AGAAGCTTCA	360
GGGTAAGGGA	CCAGGAGGAC	CACCTCCCAA	GGGCCTGATG	TACTCAGTCA	ACCCAAACAA	420
AGTCGATGAC	CTGAGCAAGT	TCGGAAAAAA	CATTGCAAAC	ATGTGTCGTG	GGATTCCAAC	480
ATACATGGCT	CAGGAGATGC	TCGAG				505

- (2) INFORMATION FOR SEQ ID NO:159:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 373 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

GAATTCGGCC	AAAGAGGCCT	AGCCGGAGCA	GCTGTCTGGG	AGTCAAGGCT	GCAGTAGCGT	60
TTCTTCATGG	GGTGCTCCAG	GGGGTGCCAC	AGACCGACAG	GCAGCCCAAG	GGCCTGGACA	120
		GCCCCAGGAG				180
		GGCCTCGGTC				240
		GTGTACGATG				300
		GACGTGCTAC	CCCTCCCGGT	CCCGGCCCTG	GCCCAGCCAG	360
CCCAGCCCTC	GAG					373

- (2) INFORMATION FOR SEQ ID NO:160:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 362 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

GAATTCGGCA	AAGAGGCCTA	ATGAATTCTC	TGATCACAAA	ACAGACCCAG	GAAAGCATTC	60
AGCATTTTGA	GCGACAGGCA	GGGCTGAGAG	ATGCTGGCTA	CACACCCCAC	AAGGGCCTCA	120
CCACCGAGGA	GACCAAGTAC	CTTCGAGTGG	CCGAAGCACT	CCACAAACTA	AAGTTACAGA	180
GTGGAGAGGT	AACAAAAGAA	GAGAGGCAGC	CTGCATCAGC	CCAGTCCACC	CCAAGCACCA	240
CTCCGCACTC	TTCACCTAAG	CAGAGGCCCA	GGGGCTGGTT	CACTTCTGGT	TCTTCCACAG	300
CCTTACCTGG	CCCAAATCCT	AGCACCATGG	ACTCTGGAAG	TGGGGATAAG	GACGGGCTCG	360
AG						362

- (2) INFORMATION FOR SEQ ID NO:161:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 419 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

GAATTCGGCC	AAAGAGGCCT	AGTTTTACAA	AACGCGATTT	GTAATATAAA	CTAGTTAGAT	60
AACTCAGAGG	GTTTTATTGG	CCATATTTTT	GTTTATGCTT	TGTCACAGGC	TTTAGTCATT	120
GCTTCCATGT	GTTTTCATCC	TTCAGGATAT	CTTCAAGAAG	CCTACTTATG	GACCAAACAA	180
GTTCTGACCA	TCATGGAGAA	ATCTCTGGTC	TTGCTCAGGG	AGGTGACGGA	TGGCTCCCTC	240
TATGAAGGAG	TTGCGTATGG	CAGCTACACC	ACTAGATCAC	TCTTCCAATA	CATGTTTCTC	300
GTCCAGAGGC	ACTTCAACAT	CAACCACTTT	GGCCATCCGT	GGCTTAAACA	ACACTTTGCA	360
TTTATGTATA	GAACCATCCT	GCCAGGTATA	GTGAGGAGTC	AGAAGTGTGA	AAACTCGAG	419

- (2) INFORMATION FOR SEQ ID NO:162:
  - (i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 261 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:	
GAATTCGGCC AAAGAGGCCT ACAGGTAGTA TCTTTATAGC GGTATAAAAA CAGACTAATA CAAACAGGTA GCTCTAAATT GTGAGTTTTT CTTAACTCCT TTGATCTTCT GTGATAGCGA TTTTCACACT TCCACACTC CCTAATGCCA AAAATCCACC TCCAGCAGCT GTTTTGCCTC TTCCTTATCC TGCCCCTTGG AAGAATGTCA TCATTATTGC TGCCACAGCA CTGTGTTCTT TTTCAGAAGT TACAGGTCGA G	180 180 240 261
(2) INFORMATION FOR SEQ ID NO:163:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 108 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:	
GAATTCGGCC AAAGAGGCCT AGTGGTCTGG GGCAAAATTT AGTAAGACCT GGAAAGCATA GGTAATCAAA GCAGAAACTG ACAAATGAGA TGGTATCAAG CTAAAAAAG	60 108
(2) INFORMATION FOR SEQ ID NO:164:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:	
GAATTCGGCC AAAGAGGCCT AGTTTAACCT CATCAGACAT TATTGCAGCC AGCTGTCAGC CAAGCTCAGT AACCTTCCAA CGCTCATTTC CATGAGGCTA GAGTTCCIGA GAATCCTCTG TAGCCATGAG CATTACCTCA ATCTGAACCT TTTTTTTATG AATGCTGATA CTGCTCCAAC ATCTCCTTGT CCTTCCATAT CTTCCCAGAA CTCAAGCTCC TGCTCCAGCT TCCAGGACCA GAAGATCGCC AGCATGTTCG ATCTGACTTC CGAGTACCGC CAGCCCCTCG AG	120 180 240 292
(2) INFORMATION FOR SEQ ID NO:165:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 135 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:	

GAATTCGGCC	AAAGAGGCCT	AGCAAAAACT	GTTCAAAAGA	GTTGTTGATT	ACTTTCATTT	60
CCACTTTCTC	ACCCCCATTC	TCCCCTCAAT	TAACTCTCCT	TCATCCCCAT	GATGCCATTA	120
TGTGGATTCC	TCGAG					135

- (2) INFORMATION FOR SEQ ID NO:166:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 449 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:

GAATTCGGCC	AAAGAGGCCT	AGAAAAAGTA	GCACAGTGGA	GTCTGAAATA	GCAAGCGAAG	60
AGAAAAGCAG	AGCTGCTGAG	AGGAAAAGGA	TTATTATTAA	GATGGAGCCA	GAAGATATTC	120
CTACAGATGA	ACTGAAAGAC	TTTAACATTA	TTAAAGTTAC	TGATAAAGAC	TGTAATGAAT	180
CCACTGACAA	TGATGAATTA	GAAGATGAAC	CTGAAGAGCC	ATTTTATAGA	TACTATGTTG	240
AAGAAGATGT	CAGCATAAAA	AAAAGTGGTA	GGAAAACTCT	AAAACCTCGA	ATGTCAGTAA	300
GTGCTGATGA	AAGAGGTGGT	TTAGAGAATA	TGAGGCCCCC	TAACAACAGC	AGTCCAGTAC	360
AAGAGGATGC	TGAAAATGCA	TCTTGTGAGC	TGTGTGGACT	TACAATAACC	GAGGAGGACC	420
TGTCATCTCA	TTACTTAGCC	AAACTCGAG			•	449

- (2) INFORMATION FOR SEQ ID NO:167:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 565 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

GAATTCGGCC	AAAGAGGCCT	AAAAGGAAAC	TTGGACAAGT	AGAAAGTGGA	TGACCCAGGC	60
TCCGTTACAT	ATACTTGGAT	TCCAGCTGGG	ACCTAGATTT	GCTGAGGACG	GAAGCCAAGG	120
AGACAGGAAC	ATGTGGCTGC	TCCCAGCTCT	ACTCCTTCTC	TGCCTCTCAG	GCTGTTTGTC	180
TCTGAACGGC	CCCGGCTCTG	TGACTGGCAC	TGCGGGGGAC	TCTCTGACAG	TGTGGTGTCA	240
GTATGAGAGC	ATGTACAAGG	GATATAACAA	GTACTGGTGC	CGAGGACAGT	ACGACACGTC	300
ATGTGAGAGC	ATTGTGGAGA	CCAAGGGAGA	AGAGAAGGTG	GAGAGGAATG	GCCGCGTGTC	360
CATCAGAGAC	CACCCGGAGG	CTCTCGCCTT	CACTGTGACC	ATGCAGAACC	TCAATGAAGA	420
TGATGCTGGA	TCTTACTGGT	GCAAAATTCA	GACAGTGTGG	GTCCTGGATT	CATGGTCACG	480
CGATCCCTCG	GACCTGGTTA	GGGTGTATGT	TTCCCCAGCA	ATTACAACCC	CAAGGAGGAC	540
CACACATCCÁ	GCCACCCCGC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:168:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 158 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

GAATTCGGCC AAAGAGGCCT AGTTTCCTTT ATATGTTTGC ACTTAATTTG ATTCCATCCT

60

	TTCATTATTC TTAGTTCATC TACACCACAT AAATTATCAC CTTTGTTTTC TTTCCATGTG CCACAAACAA ATCTCGAG	120 158
(2) INFORMA	ATION FOR SEQ ID NO:169:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 383 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:169:	
TTCCCTCTCA CTAGTTTCCC GCTACTTCCC CCATTGTCTT CCCCAATGGC	AAAGAGGCCT AGTCTCACCA TCTATTCTAA ACCTTATATT ATCAATCCTA CCAAAAGAAT CCCTTTATAC AAGTAATTAT CCTGTCTATG TCTTTCAACT CACTGCAACT CTTCCCTTAA TATATGTACC TGCTCTGTTA TCCCTCTCCA TATTTTCTGT TCCCCTTTAC AGGAAAACTT TTCTCCAGCA TTTCCCAATG ACTTCCTCAC ATTCTATTTT CTTCTCAAAC CATTTTTATT AGGCTTCTTT TATTGTCAAG CTTCACTTAA TGCCGTGCAA ATCACCCTAT TCTCCAGGTC CCAGTCTCTC GAG	60 120 180 240 300 360 383
(2) INFORM	ATION FOR SEQ ID NO:170:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 282 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:170:	
TCTCTCCTCC TCCTTTTCCC ACTGACCTGT	AAAGAGGCCT AAATATTGTC TGAAAAAAAT ATATGAGACC CATTACTCAG TGCCATTTAT ACTGCAGGTA TTCCCCAAGT TTCTCTTCTC	60 120 180 240 282
(2) INFORMA	ATION FOR SEQ ID NO:171:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 350 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:171:	
TGTTCTTATT CTTCCCACAG	AAAGAGGCCT AGTGGAAGAG AAGAATGTTT CTGTCTCTTC CTACGTTGAC CCACTGGTTT CTTTAGCAGG ACTGTTCTAC TCAGCCTCTG TGGAAGAAAA GGCTGCACTA GCACAGCCAG CCTTTGCTTT TACAGCCTGC TCTTGCCTAT GTGTATGTAT TCTTCCACCT TTGGACTTGG ATGGGTATTA AACTCTTCAG	60 120 180 240

GATCTCTGAA AGCTCAAATG GATGGAATTT AGTTTGCGGG AACTCTCGAG

GCATAATTGA TGCAACTAGA GTCAATATGC TGTATATATT AATGATAGCT CTTGGGCATC

300

350

(2) INFORMATION FOR SEQ ID NO:172:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 140 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:	
AAAGAATATA TCTTCAATCA AGGCTCTTGT GCAGCCTACA CAGAAAAATG AAGCTTTTTG	60 20 40
(2) INFORMATION FOR SEQ ID NO:173:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 304 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:	
GTACATCGCC ACCCAGGGAC CGCTGCCCGC CACCGTGGCT GACTTTTGGC AGATGGTGTG  GGAGAGCGGC TGCGTGGTGA TCGTCATGCT GACACCCCTC GCGGAGAACG GCGTCCGGCA . 1  GTGCTACCAC TACTGGCCGG ATGAAGGCTC CAATCTCTAC CACATCTATG AGGTGAACCT 2  GGTCTCCCGAG CACATCTGGT GTGAGGACTT CCTGGTGAGG AGCTTCTATC TGAAGAACCT 3	60 20 80 40 00
(2) INFORMATION FOR SEQ ID NO:174:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 188 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:	
CCCTTCTTCA TCTTTTCCTC ACACTTGCTG GAGCTGGAGC AGCTATCCTG ACCGCAGGTG	60 .20 .80
(2) INFORMATION FOR SEQ ID NO:175:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs	
148	

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

GAATTCGGCC	TTCATGGCCT	ACTATCTGCC	TTGCGCTCCC	ACTGCCCTGA	CCTGTGCCCT	60
CTCACAGGCC	CCCGTGATGG	CTCGCTGGCC	TCCCTTCGGC	CTCTGCCTCC	TCCTGCTGCT	120
GCTGTCCCCA	CCGCCACTGC	CCTTGACAGG	GGCCCATCGC	TTCTCCGCAC	CTAATACCAC	180
TCTCAACCAC	TTGGCACTGG	CACCTGGCCG	AGGCACACTC	TATGTCGGCG	CAGTGAACCG	240
CCTCTTCCAG	CTCAGCCCCG	AGCTGCAGCT	CGAG			274

- (2) INFORMATION FOR SEQ ID NO:176:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 327 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

GGTCAGCCGA	GCATGATAGG	AGACATCATC	AACCTCGGCC	TGAAAGGGAG	GGAGGGGAGA	60
GCAAAGGTCG	TCAACGTGGA	GATCGTGGAG	GAGCCCGTGA	GTTATGTCAG	CGGGGAGAAG	120
CCGGAGGAGT	TTTCCGTCCC	ATTCAAAGTG	GAGGAGGTCG	AAGATGTGTC	GCCAGGCCCC	180
TGGGGGTTGG	TTAAGGAGGA	GGAAGGTTAT	GGAGAAAGCG	ATGTCACATT	CTCAGTTAAT	240
CAGCATCGAA	GGACCAAGCA	GCCTCAGGAG	AACACGACTC	ACGTGGAAGA	AGTGACAGAG	300
GCAGGTGATT	CAGTGGGCGA	GCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:177:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 408 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

GAATTCGGCC	AAAGAGGCCT	AAGCAATGTC	TCCACCACTG	CTGCTGCTAC	CCTTGCTGCT	60
GCTGCTGCCT	CTGCTGAATG	TGGAGCCTGC	TGGGGCCACA	CTGATCCGGA	TCCCTCTTCG	120
TCAAGTCCAC	CCTGGACGCA	GGACCCTGAA	CTACTGAGGG	GATGGGGAAA	ACCAGCAGAG	180
CTCCCCAAGT	TGGGGGCCCC	ATCCCCTGGG	GACAAGCCTG	CCTCGGTACC	TCTCTCCAAA	240
TTCCTGGATG	CCCAGTATTT	TGGGGAAATT	GGGCTGGGAA	CGCCTCCACA	AAACTTCACT	300
GTTGCCTTTG	ACACTGGCTC	CTCCAATCTC	TGGGTCCCGT	CCAGGAGATG	CCACTTCTTC	360
AGTGTGCCCT	GCTGGTTCCA	CCACCGCTTC	AATCCCAATG	TCCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:178:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

GAATTCGGCC	AAAGAGGCCT	AGGAGGAATT	TCCATCTTGC	TCTCAAAGTG	AGTCTGAATG	60
TGCTCGGTGG	TGTCACCCCC	GCCGAGCTGC	CAGTGCAGAA	GGCCACTATT	GAACTCCTGC	120
ACACGCCCCA	ACTTGTCAGA	TCGGTCAACA	ACAAACAGGT	TGTTCTTTTT	GACTATCTTT	180
ATTGGCAGCT	TGTCGAACTT	ACTGGCTTGC	TTGGGCTTCT	CCTTTGGGTC	TGCAGCGGCG	240
TCCGGGGCAG	TCAGAGCGAT	GCTGCTCTTT	TCATCGCTTT	CTGTCTTCTC	GCTGTCTACC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:179:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 247 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

GAATTCGGCC AAAGA	AGGCCT AGTGCAGCAA T	TTAGAGAGT GTCTCAGG	AG TGTGGCTCAC 60
TGGCAGCTGC AGCTA	ATGTTA GTGCTTCTTT C	TGCCTCAAG TTCAGAAA	CA AGCTGGACTA 120
TCTCAGGGTG ATTGA	AATTTT CCTGCTGTGG A	ATCATAGAA GTCTTGCA	GT CTCCCAGGTT 180
TGTGTTCAAG GTCTT	CATAT TCAGATGCTT G	AAGAATCAT TTCACATT	GG TCTAGCATTC 240
AATCGAG			247

- (2) INFORMATION FOR SEQ ID NO:180:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 315 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

GAATTCGGCC	AAAGAGGCCT	AGTCAAGTTC	ATTTCCCAGA	GTCTTAAGAC	TAAGTTCTGC	60
CTCCTCATTG	CAGGTGTGCC	GAGAGTTTTT	TTTGAACAAC	AAAAATTACT	AAGGAACCTC	120
ACTACCTTTG	GCGGTAGAAT	TAGAAAACAG	ATTCAGCAGT	CACCTACTCC	CCTTCAGTAA	180
TTCGAGACAA	TTATTTTTCT	CCTGACACAA	CATCAGGTCC	CATGAAAAAT	GACACCGTGC	240
CTGGTGTTTT	TGGGTTCTTT	AATGCTTCTT	TTAGAGCCAC	ATTTTTCTTT	TCAAACCGAG	300
TTCCCATCGC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:181:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 328 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(vi) SECTIFACE DESCRIPTION: SEC ID NO.181

(XI)	SEQUENCE DESCRIPTION: SEQ ID NO:181:	
GGCTGCCCTG AGCTAAGGTA TTCTTATGAC CCTTGAAGAG	AAAGAGGCCT AATTTTCTT CACGTTCTTT ATCACCACCA TGGTTATGTT GCTCACCATT TGTTTACTG GGATGTTTGG TTTATATATA ATGTGTGTTT AAAGGCTACA GGTCTCTTTC CACATCCCAA ACTTTCTATG ATGCTTACAT ACCAAAGATG CCTCTGTTAC TGACTGGTG ATAAATGAGC TGCGCTACCA AGCCGAGACA AAAACGTTCT CCTTTGTCTA GAGGAGAGGG ATTGGGACCC ATCATCGACA ACCTCGAG	60 120 180 240 300 328
(2) INFORM	ATION FOR SEQ ID NO:182:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:182:	
	AAAGAGGCCT AGTTGTGGAA AAGAAAGACT GTGAGGGTAG GCACAAGAGC CCCAGGTAGA GAAAACAACA TGTATGATGG CCCAGAAGGA GGCAAGTCTC	60 120 123
(2) INFORMA	ATION FOR SEQ ID NO:183:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:183:	
ATATACTTGG ACATGTGGCT GCCCCGGCTC	AAAGAGGCCT ACTTGGACAA GTAGAAAGTG GATGACCCAG GCTCCGTTAC ATTCCAGCTG GGACCTAGAT TTGCTGAGGA CGGAAGCCAA GGACACAGGA GCTCCCAGCT CTACTCCTTC TCTGCCTCTC AGGCTGTTTG TCTCTGAAGG TGTGACTGGC ACTGCGGGGG ACTCTCTGAC AGTGTGGTGT CAGTATGAGA GGGATATAAC AAGTACTGGT GCCGAGGACA GTACGACACG TCATGTGAGA G	60 120 180 240 300 311
(2) INFORMA	ATION FOR SEQ ID NO:184:	
	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 130 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

GAATTCGGCC AAAGAGGCCT AGTTCAATCT GTAACAAGCC TTCTTCAATT TCCTCTCCAC 60 ATACCCTGCA TAGACTTTAA GATTCCTCTG CTCGATGCTA ATAAGAAGAC ACACACCCCT 120

CGTTCTCGAG 130

- (2) INFORMATION FOR SEQ ID NO:185:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 416 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

GAATTCGGCC	AAAGAGGCCT	AGGAGGGGA	AGAGAGTCCG	TTTTGCAGAA	GATGAAGAAA	60
AGAGTGAAAA	TTCCTCGGAG	GACGGTGACA	TAACGGATAA	GAGTCTTTGT	GGAAGTGGTG	120
AAAAGTACAT	CCCACCTCAT	GTGAGGCAAG	CTGAGGAGAC	${\tt AGTGGACTTC}$	AAGAAAAAGG	180
AAGAACTAGA	AAGCTTGAAG	AAACATGTAA	AAGGTCTACT	TAACAGGTTG	AGTGAACCCA	240
ACATGGCTTC	CATCAGTGGG	CAGCTGGAGG	AACTGTACAT	GGCCCACAGC	AGAAAGGACA	300
TGAATGACAC	CCTGACCTCC	GCTCTCATGG	GTGCCTGCGT	CACTGCCTCG	GCCATGCCCA	360
GCAGACTGAT	GATGGAGCAT	GTTCTCTTAG	TCAGCATCCT	TCACCACTTA	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:186:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 344 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

GAATTCGGCC	AAAGAGGCCT	ACTACATTTT	TACCTAAATT	TATAGAAAAT	CAATTCGGAT	60
TGACATCCAG	CTTCGCAGCT	ACTCTTGGAG	GGGCTGTTTT	AATTCCTGGA	GCTGCTCTCG	120
GTCAAATTTT	AGGTGGCTTC	CTTGTTTCAA	AATTCAGAAT	GACATGTAAA	AACACAATGA	180
AGTTTGCACT	GTTCACATCT	GGAGTTGCAC	TTACGCTGAG	TTTTGTATTT	ATGTATGCCA	240
AATGTGAAAA	TGAGCCATTT	GCTGGTGTAT	CTGAATCATA	TAATGGGACT	GGAGAATTGG	300
GAAACTTGAT	AGCCCCTTGT	AATGCCAATT	GTAACGTACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:187:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 488 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

GAATTCGGCA	AGAGCCTAAA	ATCTACAAGC	ACCAGGAAGT	CAAGATGCAA	GCACCAGCCT	60
TCAGGGACAA	GAAACAGGGG	GTCTCAGCCA	AGAATCAAGG	TGCCCATGAC	CCAGACTATG	120
AGAATATCAC	CTTGGCCTTC	AAAAATCAGG	ACCATGCAAA	GGGTGGTCAT	TCACGACCCA	180
CGAGCCAAGT	CCCAGCCCAG	TGCAGGCCGC	CCTCAGACTC	CACCCAGGTC	CCCTGCTGGT	240
TGTACAGAGC	CATCCTGAGC	CTGTACATCC	TCCTGGCCCT	GGCCTTTGTC	CTCTGCATCA	300
TCCTGTCAGC	CTTCATCATG	GTGAAGAATG	CTGAGATGTC	CAAGGAGCTG	CTGGGCTTTA	360

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AAAGGGAGCT TTGGAATGTC TCAAACTCCG TACAAGCATG CGAAGAGAGA CAGAAGAGAG GCTGGGATTC CGTTCAGCAG AGCATCACCA TGGTCAGGAG CAAGATTGAT AGATTAGAGC GACTCGAG	420 480 488
(2) INFORMATION FOR SEQ ID NO:188:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 163 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:	
GAATTCGGCC AAAGAGGCCT AGGTCAGATG CATTAAAACA TATCAAAAATG TTACAAAAAT GTATGGCTCC CTTGCTGAGG CCCTGTCAGA TTATGTTAGA TGAGTAAACG CATCAGTGTG TAAGTTCAGA ACCAAACGTT GAATCAAGTC ATGTACTCTC GAG	60 120 163
(2) INFORMATION FOR SEQ ID NO:189:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 310 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:	
GAATTCGGCC AAAGAGGCCT ACCTGCTCAT ACCTGTGGCC AAAAGCATGA TGCCCCAGGC TCTGCCTCCA ATTCTACCAT CTTCTTCATT TATCAGGTCT CTGCCCTCCT GTACTTTGTA CTTAGATTCT CCTCTGCCAA GCCCATTCAG ACTGTGACTG GTAGGAGTGC TGTGCTCAGC TTTCCACTTG AGTGTTTATC CAAGAAGTTG GATAACCCTC TCAAGTTATG GCCTCCATTC CAGTGCGCCT CAGTCTATGG GGATGCATTC CACTCACCCT TGGGCCTAGG GCAGGTCGAG	60 120 180 240 300 310
(2) INFORMATION FOR SEQ ID NO:190:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 516 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:	
GAATTCGGCC TTCATGGCCT AGGGCCTCAG TCTTTTTACT TTTGCGGCTG TGTTTCTCTG AAGGCTTGGC ATTAGTAGAT TGAAAAGAAT AACCATCTAG GGAAATGTGA ATTCAGTTTC TTTCTGACAT TCTGCTCTCT ACAAGGGGAT ATTATGTACA CATAAACCTA CTTCCAAAAAT AATGAAGTGA GGCCTAATTC CTTACTCTTC AGAGAGCCCA CTGTGGAAGT GTCACTGACC TTGTGTATGG GCTGCCCTTC ATGGCTCTG GAGTCATTAT AAAGGGCAGC ATTTGGCGTG GTGCGTCCTA AGCCAGTGTT TCTCGGCTCT GTTCCTTAAA CATGTGTTAG TGTTAATAGA	60 120 180 240 300 360
TGTTCTTGGA AAAAAAAAA AAAAAACAGC ATTCTGAGGT CAAACATGCT CAGAAAGCTT GGAATCTGCA CTACGCTTCT CGTACACATT TCATATTAAA GATTTTGGAA AGTCCTGCAA	420 480

TACAGAGCCC TGTCTAATAT TGCCACAGCC CTCGAG

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(2) INFORMATION FOR SEQ ID NO:191:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 319 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:	
GAATTCGGCC TTCATGGCCT ACTTGCTAGA TAGACAGATT AAGAATGTTG AAGACATGGT CCAGTTTATT AATAACATTT TGGATGGCAC AGTAGAAGCC CAAGGAGGTG ATAGCATTTT GCAGAGAGTTG AAAAGAATAG TATTTGATGC CAAATCTACT ATTGTGTCTA TATTCAAGAG CTCACCACTG ATGGGCTGCT TTCTCTTTGG CCTGCCACTG GGTGTCATCA GTATCATGTG CTATGGAATC TACACAGCCG ACACAGATGG AGGTTATATA GAAGAACGAT ATGAAGTGTC TAAAAAGTGAA AATCTCGAG	60 120 180 240 300 319
(2) INFORMATION FOR SEQ ID NO:192:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 382 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:	
GAATTCGGCC TTCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTCT GGTAAAAGAT GACAGTGAAT TGTATGGGCG ATGGATTAGC CGTGGAAGGT GTTGAGTATA AGTGGTCTCC AGCCAAACTC TATGGTTACT GGAATAAGAG AGTAGGAACC TTCTCAGGCT TTATCTTTAT CTATTCTTGT CAACAGTATG TACATGTGTC CCCCAGCCCC AAATAACTGT ACAGTTTAAT GATGTTCACT CTATACAGTT CCCAGAATCC ATTGGAAATT GCTGTAACAG CATATCCTCA ATGCCCATCA ATTCTCCACG TCCAACTTCT CCATGGCCTC CTCTGCCTCT GCTGATCTGT GAACTTCTCG AG	60 120 180 240 300 360 382
(2) INFORMATION FOR SEQ ID NO:193:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 474 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:	
GAATTCGGCC TTCATGGCCT AATATTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTTAC ATTGTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA CTGAAAAATT GCACAAAGAC ATATTAGTGG AAGACCACTG CTTCGTTTAC ACAAATGAAG AGTATAAAGC AGAGAAGTGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAAG CTAAGGAACA TTTTCATAAT GAATTAGAAA TACAGATCAT CAGGAATATC CAGGAAGCGA TAGTGAATAC	60 120 180 240 300 360
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	TAAGAGACAG GAAACATTTA GCATGTTGGT AAACCACTTT AGCACATCAG TAAACAGCTT TAGGATTGGA AATTATTGCC AGGGGGGACT CGAG	420 474
(2) INFORM	ATION FOR SEQ ID NO:194:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 499 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:194:	
TGCACATCTT TGATCCCTCT TGGAGATAAA AGAGAAAAGA AGGTAAAGAT AAGTGAAGAA	TTCATGGCCT ACGTNNCTAT GTCTTCAAGC ACAGAGGTGT CCAGGTGTAT CATCGCACTG AGCTGCATGG ACAGCTGATT TCTGTGGAAA AAGTATAAGG CAGAAAGAAA TGAAGAAAGA AAATGATGAA AAGAGTAGTT CAAGAAGTTC AAAAATACGA GTGATAAGAAG TAGCAAGACA CAAGCCTCTG TCAAAAAAGA TCGTCTGAGA AATCTGAAAA AAAAGAAAGC AAGGATACTA AGAAAATAGA GAGAAGAATG ATAATGGAGC AAGTGGCCAA ACATCAGAAT CGATTAAAAA AAGAAGCGAA TAAGTTCCAA GAGTCCAGGA CATATGGTAA TACTAGACCA GATCATTGTA GACCATCAAG AAGAGGAAGA TATGAGAAAA TTCATGGAAG ATGCTCGAG	60 120 180 240 300 360 420 480 499
(2) INFORM	ATION FOR SEQ ID NO:195:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 337 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:195:	
CATTTCATAA CTTTGTACCT AAGATTACAG AGTAACAAGC	TTCATGGCCT AAGCAAAAGA GCATTAAGAA GTGTCTGTTT TTGTTATTGC ATATTTTAGT AGGTGTTCAA TTTCATTGGA TATTCTTTTT TTTTAATTGT ATGATTGAAA ACAGTAGTTG GTCTATGACT TTTGAGGAGA GGGAGAACCG GAGGCCAGCA TGAGGTTGGA ACAAGAGAAT GATGACCTTG CCCATGAACT AAAATTGCTC TACGGAATGA CTTGGATCAG GCAGAAGACA AGGCAGATGT GAGCTCCTTT TGACCAAAAC CCCTCGAG	60 120 180 240 300 337
(2) INFORM	ATION FOR SEQ ID NO:196:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 386 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:196:	
ATCCTCACTG	TCATGGCCTA AAGGAAACTG ACAAATTATC CCCAGCTGCC AGAAGAAGAA GACGGCTTCC TGTTTCCTGT GGTTCATTAT CTGATTGGCT GCAGGGATGA GTTCATAGGA CTGATGATCC TCCTCACCTC TGCGTTTTCA GCCGGTTCAG	60 120 180

GACAAAGTCC	AATGACTGTG	CTGTGCTCCA	TAGACTGGTT	CATGGTCACA	GTGCACCCCT	240
TCATGCTAAA	CAACGATGTG	TGTGTACACT	TTCATGAACT	ACACTTGGGC	CTGGGTTGCC	300
CCCCAAACCA	TGTTCAGCCA	CACGCCTACC	AGTTCACCTA	CCGTGTTACT	GAATGTGGCA	360
TCAGGGCCAA	AGCTGTCATC	CTCGAG				386

- (2) INFORMATION FOR SEQ ID NO:197:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 429 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

GAATTCGGCC	TTCATGGCCT	AGTTTTTGTC	TTTTTTTCTT	TTTTGGTATT	ATTTTGTTTG	60
CCACTTATTC	CTAAAATTCA	TATTGCTATT	AACCGTACAC	ATCTTTCCAT	GTTCTTATAA	120
TAATCTACAA	ACATCTCTCC	CTTTCTGTAG	CTCTCTCTGT	CACACACACA	CACATGCACA	180
CACGCACACA	CACACACACA	CACACGCTGT	GCACTCTCCT	GAAGCATGTG	TGTACATACA	240
TACATATGTG	AGGGGTTTTA	TGACTGTTTT	ACCAAATTGT	GTTCTTAATA	TATACAATGT	300
TGGCTTCTTT	TTAGCCATTC	AGAAGTTATT	TCAGTCATGG	AATGATCTCT	AGCCATATAA	360
CTGAAAACAG	GTAAGTTTCT	TTCTTGGGGA	AGAAGGGCGA	ATGGTGATAG	AGAAAATGGA	420
GAGCTCGAG						429

- (2) INFORMATION FOR SEQ ID NO:198:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 349 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

GAATTCGGCC	TTCATGGCCT	ACCAAGCTAT	GCAGGAACAG	TTGTCTAAGA	ACAAAGAACT	60
GACACAGAAA	CTCCAGGTAG	CCTCTGAGAG	TGAGGAAGAG	GAGGGAGGCA	CAGAAGATGT	120
GGAAGAACTC	CTTGTCCCTG	ATGTAGTGAA	TGAAGTGCAG	ATGAATGCAG	ATGGGCCGAA	180
TCCCTGGATG	CTCAGGAGCT	GCACCAGTGA	CACCAAAGAG	GCTGCAACCC	AGGAGGACCC	240
${\tt TGAGCAACTG}$	CCAGAGCTTG	AGGCCCATGG	AGTTTCTGAA	AGTGAGGGAG	AAGAAAGACC	300
AGTGGCAGAA	GAAGAAATTT	TGTTGAGAGA	ATTTGAAGAA	AGGCTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:199:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 312 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

GAATTCGGCC TTCATGGCCT AGGGAAAGCT CCAACTTGCT TTACCTTTCT AAGATATCCC 60
ATTTTCTCTA TACCATTGT TGACTAATAT ATCTCTTGCC CACTGGTTTG TAACAGTGCC 120

TTAATTAGTT TTTGTGTTTG AAGTTCCAGA ATCTCTTCCT GGCCTATGTA TTGTGTTCCG TTGATGGATC TTTCCATCCC ATGGTACCCT TTACTATTAT TGTCTTCATT TTTATTACTA TTGTTATGCC CTTTTCTCTC TCCGTGCACA TCTTCATGTT TGAACTCTAA AAACACACCG CCAACGCTCG AG	180 240 300 312
(2) INFORMATION FOR SEQ ID NO:200:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 385 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:	
GAATTCGGCC TTCATGGCCT AATATATCCA AGTAATAGCA TGTACAGTTT GGTAAGCAAT ATAATAGAGA GATATTCACA GTGAAATAGG AAAGAGCAGT ATAGGTGCAA AGACAAAAAG CATGACACAC CTAGATACAG GGCAGCTGTT ATTGGTTTTG TATGGAGAAA ACCTGGAGAA ATGGTGAGAA AAGGGCAGA AGATGAGAGG GGCCAGATCA TGGAGTACCT GTTTGTGGCG CTCAGGAGTT TAGATGTTAT CATGCAGATA ACTAGGAGCC ATTTGAGGAA CTTAAATACA GGAGTGATAC CAGATTTATA TGTTTTTAAA ATGATTACTT GGTGGTAATT AAAGAAAAGA	60 120 180 240 300 360 385
(2) INFORMATION FOR SEQ ID NO:201:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 204 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:	
AATTCGGCCT TCATGGCCTA CGTTTTTTA AATTTTTTA ACTACATATT TGATACGATC TTTTCCTTCT TGCCTTCTT TTGATTACTT ACTTCTACC ATTCTATGTT TTTCGTCACT AGTTTGAAAA TTGTATACTT TGTTTTTATT CTTTCAGTGG TTACCCTAGA AATTACAACA AACAAAAATT GCAACAACCT CGAG	60 120 180 204
(2) INFORMATION FOR SEQ ID NO:202:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 450 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:	
GAATTCGGCC TTCATGGCCT AAAATCATCA TGCATATTTA TTTCTCCAAA GCACCTTTGA CAAGCATGAT TTGGATAGAG ACTGTGCTTT GTCACCTGAT GAGCTTAAAG ATTTATTTAA AGTTTTCCCT TACATACCTT GGGGGCCAGA TGTGAATAAC ACAGTTTGTA CCAATGAAAG AGGCTGGATA ACCTACCAGG GATTCCTTTC CCAGTGGACG CTCACGACTT ATTTAGATGT	60 120 180 240

ACAGCGGTGC CTGGAATATT TGGGCTATCT AGGCTATTCA ATATTGACTG AGCAAGAGTC

TCAAGCTTCA	GCTGTTACAG	TGACAAGAGA	TAAAAAGATA	GACCTGCAGA	AAAAACAAAC	360
TCAAAGAAAT	GTGTTCAGAT	GTAATGTAAT	TGGAGTGAAA	AACTGTGGGA	AAAGTGGAGT	420
TCTTCAGGCT	CTTCTTGGAG	AAGACTCGAG				450

- (2) INFORMATION FOR SEQ ID NO:203:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 558 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

GAATTCGGCC	TTCATGGCCT	AACTGGTTTC	TGGCTCGTGG	ANTCTGTTTC	AAGATCATAT	60
AAGCCGTTGC	CATTCCCAAG	NAGCGCTGGG	ATATGCTCCT	TCTCAGATGC	TGCTATTTCA	120
GTGAAGGTAT	TTAATGCTTG	TTCAACATTA	GATTTCTGTT	TGGTAGCCAT	TAAGCAATAG	180
TTTTCCATTA	TGCGAANCTG	TACGTGACCC	TGAACAGTCT	${\tt GAGGTTTTAG}$	TTCCTTAANA	240
AGTTTTTCTG	CTGTTCTTAC	TGCCAGTTGC	ACAGATTCTT	GCTTCTCAGT	TGAATAACCC	300
${\tt AGGTCTCCAT}$	CCAGGTTTTC	AAATACTTCA	CCTCCAACAG	TTTCATTATC	TGGATTCAAA	360
CAGATCTCTA	TCATATTATA	AAGGGCATTT	TGGCCCCAGT	CACGATCTTT	CCGAGCTTTA	420
TTAAAATGTC	GAAGGGCATC	ATTTGGTTCT	CCAGTGTACC	AAAGATACAG	TCCTTTACAA	480
TACTGAAATC	CTGGTTCCAA	TTTTGCTCTG	GAGNNACGTT	TCTCAGCCAT	TGAGAAAAAT	540
CTTGGGACAT	CCCTCGAG					558

- (2) INFORMATION FOR SEQ ID NO:204:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 348 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

GAATTCGGCC	TTCATGGCCT	ACAAGTAGGG	ACTGACTTCT	CTAGGTTCCT	ACAAAGCTCT	60
TCAACCACAC	TCATTTCAAG	CTCTGTCAGA	ACAGCATCTG	AATTAGGAGG	ACTTTGGGAT	120
TCTGGGATAC	AGGAAGTATC	CAGAGCTTTG	GATATAAAAA	ACCCTGGGAC	AGATATTTTG	180
CAGCCTGAAG	AGACCTATAT	AGACCCTACT	ATGATACAAT	CTTTAACTTT	TCCTTTGGCC	240
CTTCATAATC	AAAGCTCCGA	TAAGACAGCT	AACATTGTGG	AAAACCCATG	TCCTGAGATT	300
CTAGGAGTGG	ATGTAATATC	TAAAGAGACA	ACTAGGAGGA	AGCTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:205:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 292 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

CGCTTGGGTC CAGATCTGTA TTCCCAGGGC TCATAGAGAT ATTGGCAAAC TGACAGATTT CATGGCTCA GAAACCTAAA GACACCTACT TGAATTCCTT TGGTTGGCAG TCAAATGTTA ACTAGTGTGT TTTCAAGCTT CTATTCTTAG GCATGTTACT TCCTTTTGGA AGTCAAAACC AACCATCTTT TAAGTAAGAG GGCTAACCAA ATATGTGCCA CACTAACTCG AG	120 180 240 292
(2) INFORMATION FOR SEQ ID NO:206:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 220 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:	
GAATTCGGCC TTCATGGCCT AAAATATTAA AATCTTTGAA GAAGAAGAAG TTGAATTTAT CAGTGTGCCT GTCCCAGAGT TTGCAGATAG TGATCCTGCC AACATTGTTC ATGACTTTAA CAGAGAAACTT ACAGCCTATT TAGATCTTAA CCTGGATAAG TGCTATGTGA TCCCTCTGAA CACTTCCATT GTTATGCCAC CCATCTCGAG GCAGGTCTAG	60 120 180 220
(2) INFORMATION FOR SEQ ID NO:207:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 333 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:	
GAAAAAATGG CCAAGGCTAC TGGGAAACTA AAGCCAACTT CTAAAGATCA GGTATTGGCC ATGCTAGAGA AAGCCAAAGT TAACATGCCA GCCAAGCCTG CTCCACCCAC TAAAGCAACT TCTAAACCAA TGGGAGGGTC CGCTCCAGCC AAATTCCAGC CTGCATCAGC ACCTGCTGAA GATTGTATTT CCAGCAGTAC AGAACCCAAA CCTGATCCAA AAAAGGCCAA AGCTCCAGGA TTATCCTCTA AAGCAAAGAG TGCACAAGGG AAGAAGATGC CAAGCAAAAC CAGCTTAAAG GAGGATGAAG ACAAATCCGG GCCTATACTC GAG	60 120 180 240 300 333
(2) INFORMATION FOR SEQ ID NO:208:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 316 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:	
GGAGACAAGT TCTCCTCAGT GAACTGGCAG TACCAGTGTG GGCTTACCTG TGAGCACAAG GCCGACCTTC TCCCTATCAG TGCATCCGTC CAGTTTATTA AAATTCCTGC ACAGTTACCC CACCCCCTGA CAAGATTCCA GATCAATTAT ACAGAGTATG ACTGCAACAG AAATGAGGTG TGTTGGCCGC AGCTTCTATA TCCATGGACT CAGTATTATC AAGGGGAGCT GCATTCTCAG TGTGTTGCTA AGGGCTTACT GTTGCTGTTG TTCCTCACAT TGGCCTTGTT CCTCAGCAAC	60 120 180 240 300 316

- (2) INFORMATION FOR SEQ ID NO:209:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 517 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:

GAATTCGGCC	AAAGAGGCCT	ATGTCCCTGT	CCATCTTAGA	GGCTGACCAA	GCCCAGCCAT	60
GGGTGGTCCA	AATTGCTTAG	GTGGTCCCAA	TTGCTTGGCT	GGCCCAAGAG	ATGTCTGGTT	120
CTTAACAATA	CAAGAGCCTA	TAGAAATTGC	TAAAGGGATT	TCAGCCACAA	CTGAAGCTCA	180
CCAAGAATGA	GTTTTCTGGA	ACTGGTTAAA	GTGTCACAGT	AGGGAGTAAG	GAAATAAGAA	240
TCCCCACCAA	ACATAAGAGA	ACAGAATGAT	AATAGTCCCT	ACTAGTCCAT	GACAAGGCTG	300
CCAATTAGGC	ATT' AAAGCT	ATCAAAGATG	ATGCTGTGAG	GGACCTGGCA	ACTTTTGTAA	360
			CAAGCAGCAA			420
			TGCTACTGTA	GCATAAAAGC	AGCGATACAT	480
CCTAAACCCG	TCGATTGAAT	TCTAGACCTG	CCTCGAG			517

- (2) INFORMATION FOR SEQ ID NO:210:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 829 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:

GAATTCGGCC AAAGAGGCCT	AAGAACATGA	AACATCTGTG	GTTCTTCCTT	CTCCTGGTGG	60
CAGCTCCCCG ATGGGTCCTG	TCCCAGGTGC	AGCTGCAGGA	GTCGGGCCCA	GGACTGGTGA	120
AGCCTTCGGA GACCCTGTCC	CTCACCTGCA	CTGTCTCTGG	TGATTCCATC	AGTCATTACT	180
ACTGGACCTG GATCCGGCAG	CCCCCAGGGC	AGGGACTGGA	GTGGATTGGA	TATTTCTATT	240
CACCCGGGAA CTCCAACTAC	AATCCCTCCC	TCAAGAGTCG	AGTCACCATG	TCAGTCGACA	300
CGTCCACGAA CCAGTTCTCC	CTAAAACTCA	NTTCTGTGAC	CACTGCGGAC	ACGGCCGTCT	360
ATTACTGTGC GAGAGACCTA	TATTGCCGTG	GGGGAACCTG	CTACCCCGCG	AGACTTGACC	420
GCTGGGGCCA GGGAACCCGG	GTCATCGTCT	CGTCAGCCTC	CACCAAGGGC	CCATCGGTCT	480
TCCCCCTGGC ACCCTCCTCC	AAGAGCACCT	CTGGGGCACA	GCGGCCCTGG	GCTGCCTGGT	540
CAAGGACTAC TTCCCCGAAC	CGGTGACGGT	GTCGTGGAAT	TCAGGCGCCC	TGACCAGCGG	600
CGTGCACACC TTCCCGGCTG	TCCTACAGTC	CTCAGGACTC	TACTCCCTCA	GCAGCGTGGT	660
GACCGTGCCC TCCAGCAGCT	TGGGCACCCA	GACCTACATC	TGCAACGTGA	ATCACAAGCC	720
CAGCAACACC AAGGTGGACA	AGAAAGTTGA	GCCCAAATCT	TGTGACAAAA	CTCACACATG	780
CCCACCGTGC CCAGCACCTG	AACTCCTGGG	GGGACCGTCA	GTCTTCCTC		829

- (2) INFORMATION FOR SEQ ID NO:211:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 142 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRÍPTION: SEQ ID NO:211:

GAATTCGGCC AAAGAGGCCT AGTTAATCTG ATAAATTCAC CATCAATTTG GTAAGCTTTA

ATATAACTAC CCTGTTTTTT GAATACAGAT AATGCAAAAG AAAACCATTT TATACTCGGC

60

120

TATATACCTT CCACCACTCG AG	142
(2) INFORMATION FOR SEQ ID NO:212:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 555 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:	
GAAATTCGGC CAAAGAGGCC TAGTGGAATC ATTCTGCCAC ACCATTTCCT ACTCAAATG GTACAAACAT ACCACAGACA CTCCCATATA CACATGCTCC TCTATCCGCC AACTCTGG CCAAAACTAA ATTGGTCTTC AAGAGAGATG ATGGCTTTAA GAACAAAAAT AGCCTTAT TCTATTTTAC TTGCTGTACT GTTGTACTGT TTATTTAAGA AACAAGCTGG TGGTTGAT CCAGGAAAAA TTATCTTTTC AAAATGAGGG AAGAGGAGGT TCACCATGTG GATATGGT GCCTTTCAAC ATCCTTAAGG ATTGTTGATA TCATTATTGT TAATCAATTG TTGTCAGC AGTGGCTGCC CAAGCTGTG AAATGAAACA GCCAATCAGC AGGAGAAAGT GATGAAAT AATGACCTCT TTCCTTAACC ACTCATCCGT AAGCCTTGTT ATTTTTCATA CAAACCTCG GCCGGGGGAG GAGGGGCGGC GGCGAATGCT GGGAGAGTCA GGTCTAGAAT TCAATCGTT GCCGGGGGAG CCGAA  (2) INFORMATION FOR SEQ ID NO:213:	AA 120 CC 180 GT 240 GT 300 AC 360 TA 420 GA 480
<u>-</u>	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 97 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:	
GAATTCGGCC AAAGAGGCCT ACGAGAAGGG CGGTGTGTAC AAAGGGCAGG GACTTAATGACCCAAGCTT ATGACCCGCA CTTACTGGGA ATTCCTC	CA 60 97
(2) INFORMATION FOR SEQ ID NO:214:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 487 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:	
GAATTCGGCC AAAGAGGCCT AAGAAGAAAT TGGTAGATTG CGAGAAGAGA TAGAAGAAAAAACGTAAT CAGGAACTTT TACAAAGCCA GCTGACTGAA AAGGACTCTA TGATTGAA TATGAAATCT TCCCAAACAT CTGGCACAAA TGAACAGTCT TCAGCAATAG TTTCAGCTAAGATTCTGAA CAAGTTGCAG AATTAAAACA GGAACTGGCA ACTTTAAAGT CTCAGTTA	AA 120 AG 180
161	

CTCACAATCT	GTGGAGATCA	CCAAACTACA	GACAGAAAAG	CAGGAACTGT	TACAGAAAAC	300
AGAAGCGTTT	GCAAAATCAG	TTGAGGTACA	AGGAGAGACC	GAGACTATAA	TAGCCACCAA	360
AACTACTGAT	GTAGAAGGAA	GACTGTCAGC	ATTATTACAA	GAGACCAAAG	AGTTAAAGAA	420
TGAAATTAAA	GCTCTGTCTG	AGGAAAGAAC	TGCCATTAAA	GAGCAGCTGG	ATTCATCTAA	480
TAGTACC						487

- (2) INFORMATION FOR SEQ ID NO:215:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 584 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

GAATTCGGCC	AAAGAGGCCT	ACTGGGCCTT	TCAGCACCTG	CTCCAGCTTC	ACCTTGGTGA	60
ACATCAGGTT	GAAGTTCTCA	GGGTGCTCGG	TGATGGCCAT	GTTGACAACA	TCCAGGGCAT	120
GCTGGTGGTG	CTTCTGGGCA	GAGAAGAGCA	GTGCCAGCAG	GTGGAGGGCG	TGGGCATCAT	180
CCTTGCGTAC	CTTCAGGGCC	TCCTGCAGCT	GCTCCATGGC	ACTGGAGATC	TGTCGGACGA	240
GGGCCAGCTG	CAGCGAGACA	TAGAGGATGA	CCTGGGGGTC	ACTGGGCGCC	AGCTGCTGAG	300
CCCTCTCCAG	CGTCTGCAGT	GCCTTCCGGT	GCAATTCATC	TTGCTTGGAC	TTCAGGGTGG	360
CGTCGGTGGC	CTGCAGGCTA	TAGGTGAGAC	CCAGAGCCAG	GTAGCCCTTG	GGGAGGAACT	420
CCCCGGCTTC	CTCTCCGAGG	CTGATCACCA	TCATGGCAAA	GTGCTCTGCT	TCCTCTAGCC	480
AGCGAAGGGA	CCCGATGCAG	ACCTTCGCGG	CCATCAGGGG	CACGGTGGGG	TCCGAGGGCC	540
GCAACTTCAC	ACACTCCCGC	AGCAGGGACA	CAGCGTAGGC	TGAC		584

- (2) INFORMATION FOR SEQ ID NO:216:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 532 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

GAATTCGGCC	AAAGAGGCCT	AGACCTGCCC	TAAAGATAGA	GTCTTGATGC	ACCGTCTACC	60
${\tt TTGTCCCCAA}$	CCAAGAGTGA	${\tt GTAGTGCACA}$	GAAGTCTCCT	${\tt GGCACCCTGG}$	GAATCCTGCA	120
TTTTTAATGG	ACGAGCAGGG	CAGGAAAGAA	AAAAAAAACC	CAAACCCCAT	CACTCTGCCA	180
GCCCCTGTGA	CCAAAGCAGC	CCAAATCAGT	TACCTTGACA	ACTCTCATGC	ACAGACTGCA	240
CCAGCCTGTG	TTGCAAACAT	CACTGCCCCG	CTTCTAACAG	GAAGAGATAC	TCTTTTGGGG	300
GTCTTGCAGG	GCCCAGGACC	AGAGCCCCTT	CTACCCAGGG	CCCTTCCAAA	GGCAAAGCAC	360
AGAGTCACAT	TTGGGCGTGG	CATGAGAGGG	AAATAAAGAG	ATTTGGCTGT	AGTGGGAGGG	420
AGGTTTCAGT	GCTTTTTCTG	GGGACATTGG	TGCCTATCTC	TATTCTGAGA	GTTGTTCTCC	480
TCATAGGACA	CCATAAATCG	CATCCAGGAC	CTGCTGGCTG	AGGGTACTCG	AG	532

- (2) INFORMATION FOR SEQ ID NO:217:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 269 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

GAATTCGGCC	AAAGAGGCCT	AGTGTGTCCG	GGTCTTATAC	AAAAACAACA	CAGTGAATGA	60
AGGAATAAAT	ATTTATTGAA	TGGAAAATCA	GCAAAGGAAA	AAATTGTATA	ATTGTCAATG	120
ACAATGGGAA	GCACATAGTG	AGGCTATGAG	TGATTTGGAA	ATCATGAGCG	TGCAGTGTTT	180
TGTTCACGCA	TTTCGGTTGT	GTTTTCAGAA	AGTAACTACA	ACATAGCATC	ATGTAGCAGA	240
ATTGCTGGTT	GTAAGCAAAA	AGGCTCGAG				269

### (2) INFORMATION FOR SEQ ID NO:218:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 675 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

GAATTCGGCC AAAGAGGCCT	AATTCTTTTT	CTTTTTAATT	TGAAGAAAA	TCATCAGTCT	60
TGGAATACAG AAGAGAAACT	AGAAATATAC	GTATTTTGTT	TCACATTTGA	ACAGTCATTC "	120
TTGAGGAATA CTCCATACCT	GAGTAGACAG	CCATGTGGCC	ATCGCAGCTA	CTAATTTTCA	180
TGATGCTCTT AGCTCCAATA	ATTCATGCTT	TCAGCCGTGC	CCCAATTCCA	ATGGCTGTGG	240
TCCGCAGAGA GCTATCCTGT	GAGAGCTATC	CTATAGAGCT	TCGCTGTCCA	GGAACAGACG	300
TCATCATGAT AGAAAGTGCC	AACTATGGCA	GGACTGATGA	CAAAATTTGT	GACTCTGACC	360
CTGCTCAGAT GGAGAATATC	CGATGTTATC	TGCCAGATGC	CTATAAGATT	ATGTCTCAAA	420
GATGCAATAA CAGAACCCAG	TGTGCAGTGG	TGGCAGGTCC	TGATGTTTTT	CCAGACCCGT	480
GTCCAGGAAC CTATAAATAC	CTTGAAGTGC	AGTATGAATG	TGTCCCTTAC	ATTTTTCTTT	540
GTCCTGGACT ACTAAAAGGA	GTATACCAGA	GTGAACATTT	GTTTGAGTCC	GACCACCAAT	600
CTGGGGCGTG GTGCAAAGAC	CCTCTGCAGG	CATCTGACAA	GATTTATTAT	ATGCCCTGGA	660
CTCCCTACAG AACTG					675

- (2) INFORMATION FOR SEQ ID NO:219:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 414 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

GAATTCGGCC	AAAGAGGCCT	ACTCCCTGTT	TTGAACAAGT	TTTTTTGAGA	ATTCTTAGTT	60
TTAGTTTTTG	TTTAGCTTAC	ACACTGAAAA	TTTTGAGAAG	CATCTAAAAA	AATCCACAAT	120
TAGTGCAAAA	AGAGGGGACA	ATACTTTAAG	TCATTCCTTC	TATAAAAAGA	ATTAAGGTTA	180
CTAAATGCCA	ATTTTTAAGC	AAATATATAG	TTTCCTATTT	GCCTTCTGAA	AGACAGCAGA	240
TATAAAAATA	GTTCAATATT	AGGTTTAACA	AGGTTTGAAC	AACACATGTA	CTATCAGCTT	300
TATTTTACCT	GCAAAAATAT	TTTAGCTACA	CTTGGAAAAA	AATAAACTTG	AGAATATAAC	360
TTCACATTTC	TAAGGCCAGA	TGCAAGAATA	CTTATTTAGG	CCTCTTTGGC	CGAA	414

- (2) INFORMATION FOR SEQ ID NO:220:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 120 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:

GACCGTCGAT TGAATTCTAG ACCTGCCTCG AGATTGGAGA CAGAAGGTCC CGGGAGCAGA
AAGCCAAACA GGAGCGGAG AAAGAACTGG CAAAAGTCAC TATCAAGAAG GAAACTCGAG
120

- (2) INFORMATION FOR SEQ ID NO:221:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 333 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:

GAATTCGGCC	AAAGAGGCCT	AAGCAGCAGC	TGCTTATATG	CATGTGAAÇA	GCTGGGGAAT	60
TAATTTGGTA	TGCATTCTCA	GGAGCCACTC	ATCTGCTGGC	AGAGGTAGCA	GAAGAATGCC	120
${\tt CTTAGTGTAA}$	GTCCTCTACA	ACCATACACC	AAATGTGCTC	CCTGCATTTC	AAATTCCATT	180
GTAGAAAGTC	TCTGATAATC	TCACTTATAC	CATGAGCCAT	TCCTCAGTAT	CTGTCCTCTT	240
CCTGTTAGTG	TTCTACAATT	CCTTTCTCCT	TAATTTTTCT	CCGCTTTACA	AAATGTCACA	300
CAGACAAGTG	CATAATACTT	AAACAAGCTC	GAG			333

- (2) INFORMATION FOR SEQ ID NO:222:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 817 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

GAATTCGGCC	AAAGAGGCCT	AAGAAAAGCA	CCCTTATTAA	GAATTGCAGC	AAGTAAGCCA	60
ACAAGGTCTT	TTCAGGATGA	TTTTCTTATA	TCAAGTGGTA	CATTTCATTT	TATTTACTTC	120
AGTTTCTGGT	GAATGTGTGA	CTCAGTTGTT	GAAGGACACC	TGCTTTGAAG	GAGGGGACAT	180
TACTACGGTC	TTCACACCAA	GCGCCAAGTA	CTGCCAGGTA	GTCTGCACTT	ACCACCCAAG	240
ATGTTTACTC	TTCACTTTCA	CGGCGGAATC	ACCATCTGAG	GATCCCACCC.	GATGGTTTAC	300
TTGTGTCCTG	AAAGACAGTG	TTACAGAAAC	ACTGCCAAGA	GTGAATAGGA	CAGCAGCGAT	360
TTCTGGGTAT	TCTTTCAAGC	AATGCTCACA	CCAAATAAGC	GCTTGCAACA	AAGACATTTA	420
TGTGGACCTA	GACATGAAGG	GCATAAACTA	TAACAGCTCA	GTTGCCAAGA	GTGCTCAAGA	480
ATGCCAAGAA	AGATGCACGG	ATGACGTCCA	CTGCCACTTT	TTCACGTACG	CCACAAGGCA	540
GTTTCCCAGC	CTGGAGCATC	GAAATCTTTG	TCTCCTTAAA	ACATCTGAGA	GTGGATTGCC	600
CAGTACACGC	ATTAAAAAGA	GCAAAGCTCT	TTCTGGTTTC	AGTCTACAAA	GCTGCAGGCA	660
CAGCATCCCA	GTGTTCTGCC	ATTCTTCATT	TTACCATGAC	ACTGATTTCT	TGGGAGAAGA	720
ACTGGATATT	GTTGCTGCAA	AAAGTCACGA	GGCCTGCCAG	AAACTGTGCA	CCAATGCCGT	780
CCGCTGCCAG	TTTTTTACCT	ATACCCCAAC	GCTCGAG			817

- (2) INFORMATION FOR SEQ ID NO:223:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 587 base pairs

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- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:

GAATTCGGCC AAAGAGGCCT	AGGAGATACA	TCATCATATC	ACGGAAAGAG	ATGCAGATAG	60
ATCTTTGACC ATACTTGATG	AACAGTTATA	CTCATTTGCG	TTTTCCACCG	TGCACATTAC	120
GAAGAAAAGA, AATGGAGGTG	GGAGTTTAAA	TAACTATTCC	TCCTCCATTC	CATTGACTCC	180
CAGCACCAGC CAGGAGGACC	TTTATTTCAG	TGTTCCTCCC	ACTGCCAACA	CACCCACGCC	240
CGTTTGCAAG CAGTCCATGG	GCTGGTCCAA	CCTGTTTACA	TCTGAGAAAG	GGAGTGACCC	300
AGACAAAGGG AGGAAAGCCC	TGGAGAGTCA	CGCTGACACC	ATCGGGAGCG	GCAGAGCCAT	360
CCCCATTAAA CAGGGCATGC					420
GAAATATGTC ACCCTGTGTT	CCAATGGCGT	GCTCACCTAT	TATTCAAGCT	TAGGTGATTA	480
TATGAAGAAT ATTCATAAAA				AAGTCCCAGG	540
AAAGTGGCCA TCCCTAGCCA	CATCGGCCTG	CGCACCCATC	TCTCGAG		587

- (2) INFORMATION FOR SEQ ID NO:224:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 534 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:

GAATTCGGCC	AAAGAGCCTA	AGTAGTTGCT	GCCTTTCTTC	AGATCAGGTT	ACCACAATGC	60
CTCCCCGCTG	CTGACGCTTC	ATCCCCCACA	CCTCCAGCCC	CAGTTACCTG	GAGCTTCTCA	120
GAACCCACTT	TGCCGGTGCT	AAAACACAAG	AGGGGGTGAA	AGTGGCTGCC	AGTAATGGCC	180
AGAAACCAAC	CACCAGAGGC	CAGGCTGAAA	GACAAGCTCC	GGGTGTCCAG	GGGCTGACGG	240
GCCAACCATG	TGGCAGGTCC	CAGGCCCCAC	CCACTGCGCC	ATCCGTCTCT	GAGCTCCACA	300
GTGGTCCCAC	TAATGGGAAC	CTCCTCTAGG	GAGAGTGATA	CTGCACCTTC	ACCCGTAGGA	36,0
CTCATATTTA	TAACAATGTG	TAATGGCTGT	AGCAAAAAGC	CCTTGTTTCT	AGATGTAAAT	420
GGTCAAAGAA	ACAAGCGCTC	TATTGTTTTG	AATAAAATAG	TTCAAATGAG	TCCTGTATCA	480
TTGTATCTCC	TATTCTGGAT	TAGTGCCTTT	TGGACAGTAG	ACTGTAACCT	CGAG	534

- (2) INFORMATION FOR SEQ ID NO:225:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 118 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:

GCTCCACTCT	CTCCCTATCC	ATTTGTAAGA	ACAGGCTCCC	CTCGCCGAAT	ACAGTTGTCT	60
CAAAATCATC	CTGTCTACAT	TTCCCCACAT	AAAAATGAAA	CAATGCTTTC	TCCTCGAG	118

- (2) INFORMATION FOR SEQ ID NO:226:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 582 base pairs
- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:226:

GAATTCGGCC	AAAGAGGCCT	AAATTTTAGT	AGAGATGGAA	TTTCACCATA	TTGGCCAGGC	60
CGGTCTCAAA	CTCTTGACCT	CAAGTGATCT	GCCCGCCTCG	GCCTCCCAAA	ATGTTGAGAT	120
TACAGGCGTG	AGCCACCATG	CCTCTCTTAC	ATTCTTTTCT	TCTGTTCACT	ACAGCCGTGG	180
AGAGCTCCGG	GTTGTCCTGC	ACATGTGCAC	TGCCCTCTCT	TTTATGGACC	TTTTAGGCTG	240
GCTGCACCCT	CCGTCTGTGT	CACCCTCCTG	CTCCTCCTCC	ACCTGGCTAG	TTCCTGTTGG	300
CCACTTTTGG	AAATTCATGC	CAGTCCAGTC	CACCCTGAGT	ACATCCTCTT	TCTGTGTCAC	360
TGAGCTCACT	ATGCTGGGTT	TTATCTATGT	CTCCCTCGCA	ACTAGATCAT	TCACGTCTTG	420
AAGTTAGGCA	TCATGCGTTC	TTCATTTCTG	TACCTCCCAA	CTCAATGCTT	AGCACCCAGC	480
AGGGGCTCAA	GACTGTGTGT	GGAATGAAGG	ATTCGTGTGA	AAATGCAGGG	AGATGGAAGG	540
CTGAGCGTTT	CTGTTCCTTG	ACCATTCCCG	GGTTGGCTCG	AG		582

- (2) INFORMATION FOR SEQ ID NO:227:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 461 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:

GAATTCGGCC	AAAGAGGCCT	AAAAACTTAT	AAATAAGTGA	GACTACTGCC	CCCTAGCCTA	60
AAATTCATTC	CCTGCGCTCA	CTCAACATCA	TAGTTCTTTA	GGAAGACAAG	TTGTTCTATA	120
GCATAAAGAT	ACAACCTATT	TAGATAGTCT	AAAGATTCTC	CTCTGTTTCT	CAAATACAGT	180
CAGTTATGCA	GCTCAAAATG	CCTCTCATTT	TCCTGCTTTT	TTTTCTTCTA	CTATTGTTGC	240
CTCCAGGCTT	TGCAGAAACA	CATGTTATTC	TCCCCCTAAA	ATCTGTTCCT	CTTCTAGTTT	300
TCTCTCTGCC	AGCAATGGCA	CCACACAGTC	TTTTGGTTTT	GCACCAGAGA	ATTAGAGATG	360
AACCCCTCAT	CTCTAATCTA	TCACAAGTTT	CCTCAGATTT	AAACTCTCAA	ATCAAGATGT	420
TTCTCACCAT	TTCCATTACT	ATTGTCCCCA	GCTTTCTCGA	G		461

- (2) INFORMATION FOR SEQ ID NO:228:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 133 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:

GCCTAAACCG	TCGATTGAAT	TCTAGACCTA	TCTCGAGAAA	GAGTTGTTCT	GGAAAGAAAT	60
GAAGAAAAGA	GCAGAACCAA	TCTCAAGCAG	CCAAGTGGTG	AAGTTGGATG	TATGTGACCC	120
TACGTCTCTC	GAG					133

(2) INFORMATION FOR SEQ ID NO:229:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 482 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:

GAAAGGGATC	AAAAAGAAAA	AGTGATCGAA	TGGAATCTAC	TGATACCAAA	CGACAAAAGC	60
CTTCTGTCCA	TTCAAGACAA	CTGGTTTCTA	AGCCACTGAG	CTCATCTGTT	AGCAATAACA	120
AAAGAATAGT	TAGTACAAAA	GGAAAGTCAG	CCACAGAGTA	TAAAAATGAG	GAATATCAAA	180
GATCTGAAAG	AAACAAGCGT	CTAGATGCTG	ATCGGAAAAT	TCGTCTATCA	AGTAGTGCCT	240
CCAGAGAACC	TTATAAGAAT	CAACCTGAAA	AAACCTGTGT	CCGGAAAAGG	GATCCTGAAA	300
GGAGGGCCAA	ATCTCCTACG	CCAGATGGTT	CTGAGAGAAT	TGGGCTTGAA	GTGGATAGAC	360
GTGCAAGCAG	ATCCAGCCAG	TCTTCTAAGG	AAGAAGTGAA	CTCTGAAGAA	TATGGCTCTG	420
ACCATGAGAC	TGGCAGCAGT	GGTTCTTCTG	ATGAGCAAGG	GAACAACACT	GAAAATCTCG	480
AG						482

- (2) INFORMATION FOR SEQ ID NO:230:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 501 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:

GAATTCGGCC TTCATGGCC	T AGGGGATAAA	TGTAAGCTTG	TTAAAGTAAG	CACCACACCA	60
TGTTTCTGTC TCCCCAGCA	C CCAGCACAGT	GCTGTGAACC	TTGGCAGATG	CTAGATAAAT	120
GTGTGTTGAA TGAATGTGC	C TATGAAGCCA	CAAAGATGCC	ACATGTTAGT	ATATCAGTGA	180
GAGGTGACTC CACAGTGCT	C TCTGGAGAAG	CAATATGAGT	GACTGAAGAG	TGGGGCCTTT	240
TGCTTTTGCC TGGATATAG	G GGTGCTCTTC	TACTGTAATT	GGGTGTGGAA	AAACTCTGGC	300
TTTATGGTAT TCCATTAGG	T TCTTTTCATT	TAAAGTAGTC	TTAAAATCAA	AGTATCCAAT	360
ATTTTAAAGC CACAAAGTA	G ATTACATAAT	TAGCAGAGAT	TTTAGTCAGT	AAAATGTTAG	420
AAATCAAACT ATAAGAAAA	T TCAAGTCCTT	TATTTTGTGT	CTTGGGTATA	TGTCATTATT	480
TTAAATTCCA CAGCTCTCC	A G				501

- (2) INFORMATION FOR SEQ ID NO:231:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 326 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:

GAATTCGGCT	TCGATTGAAT	TCTAGGACTT	GACAGAATTC	GAGTTATCCT	TCTCAGAACA	60
TGTGCAGAGT	CTCTTTTTGC	CTCACCATGT	GGTCCTGTGC	TCTTTCAGGT	GGGAGTTTTG	120
GGGCCTCCAG	GGCAGCAGGC	ACCACCTCCA	TATCCCGGCC	CACATCCAGC	TGGACCCCCT	180
GTCATACAGC	AGCCAACAAC	ACCCATGTTT	GTAGCTCCCC	CCCAAAGACC	CAGCGGCTTC	240
TTCACTCAGA	GGCCTACCTG	AAATACATTG	AAGGACTCAG	TGCGGAGTCC	AACAGCATTA	300

### GCAAGTGGGA TCAGAGCAAT CTCGAG

(2) INFORMATION FOR SEQ ID NO:232:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:

GAATTCGGCC	TTCATGGCCT	AATCAGAAGC	TTTTCAAAAT	TCCGTCTTCA	AGAAGAAACA	60
CCCGTGGAGG	AAGAAGACAT	TATACAAAAC	AAATTTAGAA	ACTGGGATCA	TGAGTGGAAA	120
AACAAAGGCA	AGAAGGCTG	CCATGTTTTT	TAGACGTTGC	TCTGAAGACG	CCAGCGGTAG	180
CGCCAGTGGC	AATJCTTTGT	TATCAGAGGA	CGAAAATCCT	${\tt GATGCGAATG}$	GGGTAACTCG	240
ATCATGGAAG	ATTATTCTAA	GTACAATGCT	TACACTGACT	TTTCTTCTTG	TAGGACTCCT	300
AAATCATCAG	TGGCTTAAAG	AAACAGATGT	TCCTCAGAAA	TCCAGACAAT	TATATGCCAT	360
GCTCGAG						367

326

- (2) INFORMATION FOR SEQ ID NO:233:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:

GAATTCGGCC	TTCATGGCCT	AAAGAAGAAT	TGACACCTCT	TGGAGTCCAC	TTGGCACGAT	60
TACCCGTTGA	GCCACATATT	GGAAAAATGA	TTCTTTTTGG	AGCACTGTTC	TGCTGCTTAG	120
ACCCAGTACT	CACTATTGCT	GCTAGTCTCA	GTTTCAAAGA	TCCATTTGTC	ATTCCACTGG	180
GAAAAGAAAA	GATTGCAGAT	GCAAGAAGAA	AGGAATTGGC	AAAGGATACT	AGAAGTGATC	240
ACTTAACAGT	TGTGAATGCG	TTTGAGGGCT	GGGAAGAGGC	TAGGCGACGT	GGTTTCAGAT	300
ACGAAAAGGA	CACACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:234:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:234:

60	CTCTATTTGC	GTGGTGTTGG	GCTGTCATTT	CGATGAGGCT	TCATGGCCTA	GAATTCGGCT
120	TGAACAGATA	AAATCACTGC	TTTGGCTTCC	GAGCCAGGCT	GCAGAGGAAG	TGTCACTCAA
180	GCTCAAGTGC	TACAATGTTG	GTACAACATC	TGACCTTGCA	GGACGAGACC	CGCCGTGGAG
240	GCATTGTGTC	GAAGACTTTG	CTTCCCTCCA	CTGATGATTC	GTGGAACTAT	TGCATTAGAC
300	CCCACACTGT	AGCAATGTCT	TGCCCCTGCT	GGGACCGGAT	AATGTCAAAT	TGGAATGCTC
358	TCCTCGAG	TCGGCAACAA	CAACTTCACC	CTGGTTATTT	CCTCTCAAGG	GGTCCTGCGC

- (2) INFORMATION FOR SEQ ID NO:235:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 513 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:235:

		GTTGTACGTA				60
TAGATGTGCA	AGTCTTGTCA	GAATTGGCCT	CAGTGTAGTT	AAAGGGCAGA	AGGGGAAGAT	120
ACTGACTAGT	CATAGAAATA	CCTCATTCGC	CTGTGGGAAG	AGAAGGGAAG	CCTCTTCAGG	180
GTGAGTGAAT	GGCAAAGCGG	TTGCTTCTGG	CTCCTCCTTC	CCCTGTGGTC	TTGGAAGTGT	240
GTGGAAGGCA	GGGACAGAGA	TGGAGGCCGA	GCCAATAGAC	TGAAGAGACC	ACAGCAATTG	300
GCTCCTCCAT	CTAGAGATTT	TCTTGGCAGT	ATTCCATGGG	ATGTTAAGCA	AAGGAAACCA	360
AAGGAATCGT	TTCAAATGGA	CTCATGGCTT	AGAAATCTTT	ATTCTTAGGG	CAGTCAGTAG	420
TATTCTAAAG	CTTTCTGACA	AGATAAAGGA	AGTCACCAAA	ATTTCTTTTT	TTAAATTGTA	480
TCTAATCCTC	AACAACAAAC	CAAAACTCTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:236:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 412 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:236:

GAATTCGGCC	TTCATGGCCT	ACTTGGAAAT	GTTTGATGCT	ACTCTGAAAG	ATCGAGAACT	60
GAGCTTTCAG	TCGGCTCCAG	GTACTACCAT	GTTTCTGCAT	TGGCTAGTGG	GAATGGTATA	120
TGTCTTCTAC						180
GTGGTTTCTA	AGGAATTTGA	ATGATCCAGA	TTTCAATCCA	GTACAGGAAA	TGATCCATTT	240
GCCAATATAT	AGGCATCTCC	GAAGATTTAT	TTTGTCAGTG	ATTGTCTTTG	GCTCCATTGT	300
CCTCCTGATG	CTTTGGCTTC	CTATACGTAT	AATTAAGAGT	GTGCTGCCTA	ATTTTCTTCC	360
ATACAATGTC	ATGCTCTACA	GTGATGCTCC	AGTGAGTGAA	CTGTCCCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:237:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 337 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:237:

TTCATGGCCT	AGAGATATGC	TTCTTTGTAC	CAATATGGAA	AATCTAAAAG	AAAAAACCCA	60
CACTCAGCAC						120
GGGTCCAAAC						180
CTATGATCAA	TGTCAGAGGG	AAGAAGAAGA	GTTGAAACAG	AGATTTATGC	AGCGAGTCAA	240
GGAGAAAGAA	GCAACATTTA	AAGAAGCTGA	AAAAGAGCTG	CAGGACAAGT	TCGAGCATCT	300

TAAAATGATT CAACAGGAGG AGATAAGGAA GCTCGAG

CTCGAG 337

- (2) INFORMATION FOR SEQ ID NO:238:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 750 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:

GAATTCGCGC	ATTCGGTACA	ACAAGAGAGA	TAAACGATGA	AACCGTTACA	TTATACAGCT	60
TCAGCACTGG	CGCTCGGACT	GGCGTTAATG	GGGAATGCAC	AGGCAGTGAC	GACCATTCCG	120
TTCTGGCATT	CTATGGAAGG	GGAACTGGGT	AAAGAGGTGG	ATTCTCTGGC	CCAACGTTTT	180
AACGCCGAAA	ACCCGGATTA	CAAAATTGTA	CCGACCTATA	AAGGCAACTA	CGAACAGAAT	240
TTAAGCGCGG	GGATTGCCGC	ATTTCGTACC	GGCAACGCGC	CGGCTATTTT	GCAGGTTTAT	300
GAAGTTGGCA	CCGCCACCAT	GATGGCGTCG	AAAGCCATTA	AACCGGTGTA	TGACGTGTTT	360
AAAGAGGCAG	GGATTCAGTT	CGATGAGTCG	CAGTTTGTGC	CGACGGTTTC	AGGTTACTAC	420
TCCGACAGCA	AAACGGGCCA	CTTACTCTCC	CAGCCATTCA	ACAGCTCGAC	CCCCGTTCTC	480
TATTACAACA	AAGACGCCTT	CAAGAAAGCA	GGATTAGACC	CGGAACAGCC	GCCGAAAACC	540
TGGCAGGATC	TGGCGGACTA	TGCCGCGAAA	CTGAAAGCCT	CCGGCATGAA	GTGCGGCTAC	600
GCCAGCGGCT	GGCAGGGCTG	GATCCAACTG	GAAAACTTTA	GCGCCTGGAA	CGGTCTGCCG	660
TTTGCCAGCA	AAAACAACGG	CTTTGACGGC	ACGGACGCGG	TGCTGGAGTT	CAATAAGCCG	720
GAGCAGGTGA	AACACATCGC	CATGCTCGAG				750

- (2) INFORMATION FOR SEQ ID NO:239:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 490 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:

GAATTCGGCC	TTCATGGCCT	ACTTACAGAA	CCTATTCACT	GGGAAGGAAG	CCCTCATTAT	60
AATGATTTTC	ATTCTTATGT	GTGTTTCAGG	ACGACTGGGT	TTGGATTCAG	AAGAGGATTA	120
TTATACACCA	CAAAAGGTGG	ATGTTCCCAA	GGCCTTGATT	ATTGTTGCAG	TTCAATGTGG	180
CTGTGATGGG	ACATTTCTGT	TGACCCAGTC	AGGCAAAGTG	CTGGCCTGTG	GACTCAATGA	240
ATTCAATAAG	CTGGGTCTGA	ATCAGTGCAT	GTCGGGAATT	ATCAACCATG	AAGCATACCA	300
TGAAGTTCCC	TACACAACGT	CCTTTACCTT	GGCCAAACAG	TTGTCCTTTT	ATAAGATCCG	360
TACCATTGCC	CCAGGCAAGA	CTCACACAGC	TGCTATTGAT	GAGCGAGGCC	GGCTGCTGAC	420
CTTTGGCTGC	AACAAGTGTG	GGCAGCTGGG	CGTTGGGAAC	TACAAGAAGC	GTCTGGGAAT	480
CAACCTCGAG						490

- (2) INFORMATION FOR SEQ ID NO:240:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 425 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

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# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:240:

GAATTCGGCC	TTCATGGCCT	ACTTCTGGAC	TCTATAGAAC	CCACTGCCTC	CTGATGAAGT	60
CCCTACTGTT	CACCCTTGCA	GTTTTTATGC	TCCTGGCCCA	ATTGGTCTCA	GGTAATTGGT	120
ATGTGAAAAA	GTGTCTAAAC	GACGTTGGAA	TTTGCAAGAA	GAAGTGCAAA	CCTGAAGAGA	180
TGCATGTAAA	GAATGGTTGG	GCAATGTGCG	GCAAACAAAG	GGACTGCTGT	GTTCCAGCTG	240
ACAGACGTGC	TAATTATCCT	GTTTTCTGTG	TCCAGACAAA	GACTACAAGA	ATTTCAACAG	300
TAACAGCAAC	AACAGCAACA	ACAACTTTGA	TGATGACTAC	TGCTTCGATG	TCTTCGATGG	360
CTCCTACCCG	TTTCTCCCAC	TGGTTGAACA	TTCCAGCCTC	TGTCTCCTGC	TCTAGGATCC	420
TCGAG						425

#### (2) INFORMATION FOR SEQ ID NO:241:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 461 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:

GAATTCGGCC	TTCATGGCCT	AACCAGAACT	AATTTGCTAA	GTCTTTTGTT	TAGTCCTGCA	60
AGACTGATGC	TTAATACACA	GTCTGTTCTC	CTGTGTCTAG	GTCAGGAACT	CCAGTTTGCT	120
TTTCTGTTTT	GTGTCCTGGT	AGCAGCTGTT	GAGTAACTTT	CATTGGAGGT	TGGGAAGGAA	180
GTGAGGAGAA	AGTGTTCTTG	TTTAGTGTTT	TATTTCCTAT	AATAGGATGC	TGCCTAACCC	240
AGTTCATCTC	TATGTCCTGT	TCACTGAATA	TTCCGGGTAA	TTGAAAGAAA	ATATAATGGA	300
TGGGCTCCAT	TAAAACCAGC	TCAAAAATAA	ATTCTTGTCA	GTAAAGATTT	CTTGTCAAGA	360
TGTCTTGGAT	TGCACTTTTG	TTGAGGAAAG	ACAGTGTAAA	TAGTTAAAGA	ATGTTGATAA	420
AATTGAAACA	TTTGGTTGTG	${\tt GAATTGTGTG}$	TGGTACTCGA	G		461

- (2) INFORMATION FOR SEQ ID NO:242:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 508 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:

GAATTCGGCC	TTCATGGCTT	ATGGACAAGG	AAGCATTCAG	AGCATGGTGT	CATCTGACTC	60
CACATCACCA	GATTCTTCTT	TAACAGAAGA	ATCACGTTCT	GAGACAGCCA	GTAGTTTATC	120
CCAGAAGATT	TGTAATGGGG	GATTATCTCC	TGGTAACCCA	GGAGATTCTA	AGGACATGAA	180
GGAAATTGAG	CCCAATTATG	AAAGTCCCTC	TAGTAATAAT	CAGGATAAAG	ATTCATCACA	240
GGCTTCCAAA	AGCTCAATAA	AAGTTCCAGA	GACCCACAAA	GCAGTCCTTG	CTCTCCGATT	300
AGAAGAGAAA	GATGGCAAGA	TTGCTGTACA	AACTGAGAAG	GAAGAAAGTA	AAGCCTCTAC	360
AGATGTTGCT	GGGCAAGCAG	TAACCATAAA	CCTTGTCCCC	ACAGAAGAGC	AAGCAAAACC	420
TTACCGAGTT	GTGAACCTGG	AACAGCCATT	GTGCAAGCCA	TATACTGTCG	TGGATGTGTC	480
AGCAGCCATG	GCCAGTGAGC	ACCTCGAG				508

- (2) INFORMATION FOR SEQ ID NO:243:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 323 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:

GAATTCGGCT	TCATGGCCTA	GGTTTTCTGT	ACATGGAGAT	TAAACTGTCT	TCCAAAGTGA	60
AGAGTTTATT	GTTCTAGATC	TTGAGCACAA	AGGTTGGTAT	ACGTTAATAA	AAAAAATAGC	120
AAGGGAAGAA	AATCATTTCC	TTCATACCAA	GTAAGAGAGC	ACTTATCATG	GTAGGCACTG	180
GCTTTGCAAT	TATGAGACCA	GTAGTAGAAA	TAGCTTTAGT	TTCCTCAATT	TTCCTGGAGT	240
ATTCTTCAGA	CTTTCTTTAC	ACTGCTCAAG	GTGGGGCGAG	TGGCAGGGCG	GACCCTGGCG	300
ACCTGACGCT	GCGGAGGCTC	GAG				323

- (2) INFORMATION FOR SEQ ID NO:244:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 396 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

GAATTCGGCC	TTCATGGCCT	AGCTTCAGTA	GCAAATAAGG	ACATCATCTG	CTATAACCTA	60
CAAGCAGTTG	GACAGATATT	CTACATTTCC	TCATTTCTCT	ACACCGTCAA	TTACATCTGG	120
TATTTGTACA	CAGAGCTGAG	GATGAAACAC	ACCCAGAGTG	GACAGAGCAC	ATCTCCACTG	180
GTGATAGATT	ATACTTGTCG	AGTTGGTCAA	ATGGCCTTTG	TTTTCTCAAG	CCTGATACCT	240
CTGCTATTGA	TGACACCTGT	ATTCTGTCTG	GGAAATACTA	GTGAATGTTT	CCAAAACTTC	300
AGTCAGAGCC	ACAAGTGTAT	CTTGATGCAC	TCACCACCAT	CAGCCATGGC	TGAACTTCCA	360
CCTTCTGCCA	ACACATCTGT	CTGTAGCACA	CTCGAG			396

- (2) INFORMATION FOR SEQ ID NO:245:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 370 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:

GAATTCGGCC	TTCATGCTTA	GCCTCAGCTC	TTTCTTCTGG	GTTGTTTGTA	TTTTCTTTTC	60
TGTCCCAAAC	AGTTTCCCCC	ACAAAAAGAA	CTTTATGTCT	TTCTCTGTCT	TCCCTCAGTC	120
CTTCCAGTCA	GCAGCCTGTG	ATTGGGCTTT	TCCCCTCAGA	AACGAACAAT	CCAGAACCCA	180
CTGTTTAAAA	CAACTGTATT	TTGCCTTGGG	AAGTCCCATT	GCCTTCCCTG	AAAACATTAA	240
ACATTCCTCC	GATCCCCAGC	CTGAGTCTCT	CTGTCTCTGG	GCCCCATCCT	GCTCCACAGC	300
AGGGCTGGTG	TGTCCAGCAC	AGAGTGACCC	TCCGATGCCC	TTTCCCACCC	GCCGCCCTGC	360
CTCCCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:246:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 367 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:

GAATTCGGCC	TTCATGCCTA	GAGAACTTGA	AGCTTTGCGG	CAGGAATTTA	AAAAGAAAGA	60
CAAGACGTTG	AAAGAGAATT	CCAGAAAGTT	GGAGGAAGAA	AATGAGAATC	TCCGAGCAGA	120
GCTACAGTGT	TGTTCTACAC	AACTGGAATC	CTCTCTCAAC	AAATACAACA	CCAGCCAGCA	180
AGTCATCCAA	GACTTGAATA	AAGAGATAGC	CCTTCAGAAG	GAGTCCTTAA	TGAGCCTGCA	240
GGCCCAGCTG	GACAAAGCTC	TGCAGAAGGA	GAAGCACTAT	CTCCAGACTA	CCATCACCAA	300
AGAAGCCTAT	GATGCATTAT	CCCGGAAGTC	AGCCGCCTGC	CAGGATGACC	TGACACAAGC	360
CCTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:247:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 450 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:247:

GAATTCGGCC	TTCATGGCCT	ACGGCTTCAT	AGTAACTCTT	TGCCATATCT	CTAGCCAGCT	60
GCATAAAACG	TTCGCCATCA	GATGGAGACA	AAAGGTTTAA	AATACGCCTA	TAACCATCCA	120
TGGCCATTTT	ATGATCACCC	ATCTGTTCAT	AAAGGCTTGA	TCGCTCCCAC	AGATAACGGA	180
CATTAGTAGG	TTCATATTTA	${\tt AGAGCTTTTG}$	TATAGCAAAA	AATAGCCTGC	TTAATATTGT	240
${\tt CTTGTTCCAG}$	AGACATTTCT	GCCAGTCTAA	CCCATTCTTC	TGTGTCACTG	GGATTTAAAT	300
GCGCAGCAAT	CAACTCAAAC	TGCAATGATT	TTTCCATGTC	ACCTTGGTCC	TCATATATCA	360
TGGCTAGAGT	AGAGAATGGC	TCATAAGCCA	GAGGAGCTTG	TCTTATGATT	TCCATGCACA	420
TCAATATCGC	CTCTTCACGT	TCTCCTCGAG				450

- (2) INFORMATION FOR SEQ ID NO:248:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 408 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
    - (2) 1010001. 11100

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:

GAATTCGGCC	TTCATGGCCT	AACGAAACTG	ACGTCTACCT	CATGGGGCTG	CTGTGTGGGT	60
TTGGGAGGCA	AAAATCTATG	AAGGGTTTTT	TGAAATCCCA	TAGGTGCCAC	ATCTATGAGA	120
TGTTTGATAA	ATGTGAATAT	GCTTTTACAT	TTGGGCTTAT	CTAATTTGCA	ATAAGAGAGC	180
CTCTCTCTAT	CAACACCAGC	TTCTCTCTCG	GGCTGTTTGC	TCAGGGAAGG	CAAGAAAGCC	240
ACGTGCTGGC	CCTCTGCCTT	CTCTAAAGTG	CTGTTGGAGC	ATGGAGGAGC	TGGAGGAGAT	300
GGGGATGGAC	TGACAGCTAA	GAGGGCGGCT	GCTGGGACTA	GATAGTGGAT	GAAGAAAGAA	360
GGACGAGGAA	GCCGTGGGGC	AGCCTCTTCA	CATGGGGACG	AACTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:249:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 562 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:249:

GCCCATGACA	GAGAGCAGTG	CCAAAGACAT	GGCGTACGAA	CATCTGATAG	ATGACTTATT	60
GGCTGCTCAG	AAGGAAATTC	TGTCTCAGCA	GGAAGTCATC	ATGAAGTTAA	GGAAAGACCT	120
TACCGAAGCC	CACAGCAGAA	TGTCGGATTT	GAGAGGGGAG	CTAAACGAGA	AGCAGAAGAT	180
GGAACTGGAG	CAGAACGTGG	TGCTGGTCCA	GCAGCAGAGC	AAGGAGCTGA	GTGTGCTCAA	240
GGAGAAGATG	GCCCAGATGA	GCAGCCTGGT	AGAAAAGAAA	GATCGGGAGC	TGAAGGCCCT	300
TGAGGAGGCA	CTCAGGGCTT	CCCAAGAGAA	ACACAGACTC	CAGCTGAACA	CAGAGAAGGA	360
ACAGAAGCCC	CGGAAGAAGA	CCCAGACGTG	TGACACCTCT	GTGCAGATAG	AACCCGTCCA	420
CACTGAGGCC	TTCTCCAGCA	GCCAAGAGCA	GCAATCCTTC	AGCGATCTAG	GGGTCAGGTG	480
CAAAGGGTCC	CGGCACGAGG	AGGTCATTCA	GCGTCAGAAA	AAGGCCTTAT	CTGAACTTCG	540
AGCGCGAATT	AAAGAACTCG	AG				562

- (2) INFORMATION FOR SEQ ID NO:250:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 313 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:

GAATTCGGCC	TTCATGGCCT	ACCCAAACAG	ACAGAAAACG	CCACGAGGCA	AGTGTAGTCT	60
CTCACAGCCT	GGACCCTCTG	TCAGCAGTCC	ACATAGCAGG	TCCACAAAAG	GTGGCTCCGA	120
TTCCTCCCTT	TCTGAGCCAG	GGCCAGGTCG	GTCCGGCCGC	GGCTTCCTGT	TCAGAGTCCT	180
CCGAGCAGCT	CTTCCCCTTC	AGCTTCTCCT	GCTCCTCCTC	ATCGGGCTTG	CCTGCCTTGT	240
ACCAATGTCA	GAGGAAGACT	ACAGCTGTGC	CCTCTCCAAC	AACTTTGCCC	GGTCATTCCA	300
CCCTATGCTC	GNG .					313

- (2) INFORMATION FOR SEQ ID NO:251:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:

GTCTTGACAA	AACCTAACTT	GCGCAGAAAA	CAAGATGAGA	TTGGCATGGC	TTTATTTGTT	60
TTTTTTGTTT	TGTTTTGGTT	${\tt TTTTTTTTT}$	TTTTGGCTTG	ACTCAGGAGA	TCCCTCCCCG	120
GGGCTCCCGC	CGGCTTCTCC	GGGATCGGTC	GCGTTACCGC	ACTGGACGCC	TCGCGGCGCC	180
CATTTCCGCC	ACTCCGGATT	CGGGGATCTG	AACCCGACTC	CCTTTCGATC	GGCCGAGGGC	240
AACGGAGGCC	ATCGCCCGTC	CCTTCGGAAC	GGCGCTCGCC	CAACTCTCGA	G	291

(2) INFORMATION FOR SEQ ID NO:252:

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## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:

GGCGGAGTCC	GAGAGGCCCA	TCTTGCCAGC	CAATCAGAAG	60
AGATGCACCC	ACAAAGAAAG	AGTTTGTTAT	TAACCCCAAC	120
CCTGCACGAG	TACATGCAGC	${\tt GTGTCCTCAA}$	GGTCCGCCCT	180
TGAGAACCCA	AGTGAGCCTT	TTGGTGCCTC	GGTGACCATT	240
				300
CCTCATCCCT	GACTTTGTTA	AACAGACCTC	TGAAGAGAAG	360
CGAG				384
	AGATGCACCC CCTGCACGAG TGAGAACCCA TGGAACTGCA	AGATGCACCC ACAAAGAAAG CCTGCACGAG TACATGCAGC TGAGAACCCA AGTGAGCCTT TGGAACTGCA AGCAGCAAAA CCTCATCCCT GACTTTGTTA	AGATGCACCC ACAAAGAAAG AGTTTGTTAT CCTGCACGAG TACATGCAGC GTGTCCTCAA TGAGAACCCA AGTGAGCCTT TTGGTGCCTC TGGAACTGCA AGCAGCAAAA AACTTGCGAA CCTCATCCCT GACTTTGTTA AACAGACCTC	GGCGGAGTCC GAGAGGCCCA TCTTGCCAGC CAATCAGAAG AGATGCACCC ACAAAGAAAG AGTTTGTTAT TAACCCCAAC CCTGCACGAG TACATGCAGC GTGTCCTCAA GGTCCGCCT TGAGAACCCA AGTGAGCCTT TTGGTGCCTC GGTGACCATT TGGAACTGCA AGCAGCAAAA AACTTGCGAA GAATAAAGCT CCTCATCCCT GACTTTGTTA AACAGACCTC TGAAGAGAAG CGAG

#### (2) INFORMATION FOR SEQ ID NO:253:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:253:

GGGACGTTGG	TGTTGAGGTT	GGCATACGTA	TCAAGGACAG	TAACTACCAT	GGCTCCCGAA	60
GTTTTGCCAA	AACCTCGGAT	GCGTGGCCTT	CTGGCCAGGC	GTCTGCGAAA	TCATATGGCT	120
GTAGCATTCG	TGCTATCCCT	GGGGGTTGCA	GCTTTGTATA	AGTTTCGTGT	GGCTGATCAA	180
AGAAAGAAGG	CATACGCAGA	TTTCTACAGA	AACTATGATG	TCATGAAAGA	TTTTGAGGAG	240
ATGAGGAAGG	CTGGTATCTT	TCAGAGTGTA	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:254:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 497 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:254:

${\tt GAGTTTGTTG}$	GGCTTACCTT	ATTTTAATTA	AAAAGAAGTC	GGGGCTACCA	GGGGTTTCAG	60
ACGTGCTCGA	TGGACACGTG	ATTTGTAAAC	AGCCAAGATT	CTGGGGGACG	GGGGGGTGCC	120
TCGGTGGGGT	TGACATTTGA	GTTACAGGGA	CTTAATAATG	GCCAGCCTTT	CACATCCCAT	180
GGGAAACCGC	CCCCCCGGGC	CTTGGAGAAT	GGGGGTCCAA	GTGCCTATCC	CCCTTTGGAT	240
GTAAAATTCA	TCGTTAGTAA	ACATCATCCG	CCCAGCAACA	AGCAAAGCAC	ATCGCAAGAT	300
TAAAACAAAG	AATCCGCCGT	GAACAGAAGG	CCTCCATCTC	TGCTCTCAGG	CAGGTGTCCT	360
TCAGGGAGGA	GCCTCAGGCA	GCTGTTCTAA	CCCTGCTGCC	AACGCCTGGG	CTGTTTCTGC	420
CGACAATCTT	CTATTTCTCT	AAAAGAGTAC	GCTGAACAGC	TGGCTCTGCG	TTGATTGAAT	480
TCTAGACCTG	CCTCGAG					497

(2) INFORMATION FOR SEQ ID NO:255:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 470 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:255:

GAATTCGGCC	TTCATGGCCT	AGAGAACCGT	TGCTTTTCCG	AGTTGCTCTT	CTTCCAGGCT	60
CCGTTGGTGG	TCGGCATGGC	CCGTGGAAAT	CAACGAGAAC	TTGCCCGCCA	GAAAAACATG	120
AAGAAAACCC	AGGAAATTAG	CAAGGGAAAG	AGGAAAGAGG	ATAGCTTGAC	TGCCTCTCAG	180
AGAAAGCAGA	GGGACTCTGA	GATCATGCAA	GAAAAGCAGA	AGGCAGCTAA	TGAGAAGAAG	240
TCTATGCAGA	CAAGAGAAAA	GTGATGACTG	GCTATTTGGA	AAACCTGGGT	GCTACTGCCA	300
ACTGGGTGTA	TCATAAGCTC	TAAGATCAAG	ATTTTGTAGA	GTGGACAGTC	ATTACATATG	360
TTATAACTTA	TCCTTTAAAA	ACTATTTTAA	ACTTTATCCT	TTCAGCTTTA	CTTAGTGCGA	420
TGTTTTAGAA	GCAGTCTTCA	AAGAATAAAA	CACTAACCAT	GCTGCTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:256:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 388 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:256:

GAATTCGGCC	TTCATGGCCT	AATTTTGTAT	TTTTAGTGGA	GACGGGGTTT	CTCCATGTTG	60
GTCAAGCTGG	TCTTGAACTC	CCAACCTCGG	GTGATCCGCC	CGCCTTGGCC	TCCCAAAGTG	120
CTGGGATTAC	AGGCGTGAGC	CACCGCGCCT	GGCCAGTAGT	TTCTTAACAT	TAAATTATCC	180
GCAAAATGGA	AGAAATACTA	GAGGTCTGTG	AGGATGTTTC	TTCTCTTTCA	GTCTGTTGTG	240
${\tt GTGGTTTGTA}$	GTTTACAGGG	GCTTGGGTAA	CTGGATTTTT	AGGTTTATTA	TTTTAAATAG	300
TAGACTCAAC	ACTATTTGT	ATTGCAGTAG	AGATCACTTA	TGCAGATCTT	TTTAATACCA	360
TTTCATAGAG	ATTAAGGGTC	ACCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:257:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 333 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:

GAAACAGGGC	TCAAAGAAGT	GGTAACTGCT	GTGGAGGAAA	TGACAAGTAA	AGGAAAACCA	60
GGACAAGAAG	TCTTGGAAGA	CGACCAGGAA	AATACTTTAA	AATATGAGTA	TGAAGAAGAC	120
TTTGAAGTAG	ATGAGGAGAA	ACAAGGTGAA	AAATCTAATG	AAGAAGGACA	GGCTGATGTT	180
CAAATGAATG	GAATACCGCA	GTCACCTTTG	GATGATAAAA	AAGATAATTT	AGACCCTGAA	240
AAAGAGAGTG	AAACCTCATC	ACAGAAGGCA	CCAGATGCCC	GTGACAATGT	GAAAGATGAG	300
AATGATGGAT	GCTCTGAGAG	TGAACGTCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:258:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 544 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:

CACAGTGCTG	GNTCACAACA	AGATGNTCNA	GGTGTCAGCC	GTACTGTGTG	TGTGTGCAGC	60
CGCTTGGTGC	AGTCAGTCTC	TCGCAGCTGC	CGCGGCGGTG	GCTGCAGCCG	GGGGGCGGTC	120
GGACGGCGGT	AATTTTCTGG	ATGATAAACA	ATGGCTCACC	ACAATCTCTC	AGTATGACAA	180
GGAAGTCGGA	CAGTGGAACA	AATTCCGAGA	CGATGATTAT	TTCCGCACTT	GGAGTCCAGG	240
AAAACCCTTC	GATCAGGCTT	TAGATCCAGC	TAAGGATCCA	TGCTTAAAGA	TGAAATGTAG	300
TCGCCATAAA	${\tt GTATGCATTG}$	CTCAAGATTC	TCAGACTGCA	GTCTGCATTA	GTCACCGGAG	360
GCTTACACAC	AGGATGAAAG	AAGCAGGAGT	AGACCATAGG	CAGTGGAGGG	GTCCCATATT	420
ATCCACCTGC	AAGCAGTGCC	CAGTGGTCTA	TCCCAGCCCT	GTTTGTGGTT	CAGATGGTCA	480
TACCTACTCT	TTTCAGTGCA	AACTAGAATA	TCAGGCATGT	GTCTTAGGAA	AACAGAATCT	540
CGAG						544

- (2) INFORMATION FOR SEQ ID NO:259:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259:

GAATTCGGCC	TTCATGGCCT	ACATCAGCAT	CCCTGGGAGC	ATCAGAAATG	CAGAGCTCAG	60
GCCCGCCCCG	GAGCTACCGA	ATCAGAACCT	ACATTTTACA	CACCCCTCAG	CTCAGAGCTT	120
GTTTCTCCCT	GGATTCCATG	GCCCTGTGCT	GCTGGCAGCC	CGGGGTTAGG	GCATTTCGTT	180
GTCACCTGGC	GACGGTGAAG	CCTAGTTTCC	TCCAGAGAGA	TTATGCTGCT	CTCCATCCAA	240
GTGAAGTGGC	AATGGTGCCA	GCCTGAGATT	TCTGCCCTGA	GTTTTAAGTA	CGAGAGTGTG	300
GGCTGACAAT	AAACTCCTTT	ATTCTACCCT	CTTCTGTTCT	CATAAGGAGA	AATTTAAATT	360
CTGGAAGAGA	TGAAGCTTGC	ATTTACCCAA	GAC			393

- (2) INFORMATION FOR SEQ ID NO:260:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 705 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260:

60	AATACCAAAG	AAAAAAAACC	TATTCCTTTA	AAGGGATTGT	AAAGAGGCCT	GAATTCGGCC
120	TTATTCACTT	CAACGTTGTT	CTGTTGATTT	AGCCAAAATT	TGTTGGCCTT	AAGCCTACAA
180	CATTGCAGAA	CAACACAGAA	GACATAAACA	AGAAAATCAA	GCCATGGAAA	CTATCGGGGA
240	CTTAAACTCA	GTGAAGCAAA	TCTTTGGAAA	TAAACCTATT	CAATGGAAAA	GTTTTTAAAA
300	TTTGAATCTA	ATTCCCCTCC	AAGGCGAGTC	CTCAAATCTC	ATATAACCAC	GATAAAGAAA
360	GCATTCTTTG	CATCAGCAGA	TCCAGTAACT	AACAGATTTC	GCCACGGAAT	CCCAACAACA

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GGCAGTCTAA AACCCACATC TACCATTTCC ACAAGCCCTC CCTTGATCCA TAGCTTTGTT 420
TCTAAAGTGC CTTGGAATGC ACCTATAGCA GATGAAGATC TTTTGCCCAT CTCAGCACAT 480
CCCAATGCTA CACCTGCTCT GTCTTCAGAA AACTTCACTT GGTCTTTGGT CAATGACACC 540
GTGAAAACTC GTGATAACAG TTCCATTACA GTTAGCATCC TCTCTTCAGA ACCAACTTCT 600
CCATCTGTGA CCCCCTTGAT AGTGGAACAA AGTGGATGGC TTACCACAAA CAGTGATAGC 660
TTCACTGGGT TTACCCCTTA TCAAGAAAAA ACAACTCTAC CTACC 705
```

- (2) INFORMATION FOR SEQ ID NO:261:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 729 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261:

GAATTCGGCC	AAAGAGGCCT	ACCTTACTTG	AGTCCACAGG	CAAGGCCCAA	TAATGCATAT	60
ACTGCCATGT	CAGATTCCTA	CTTACCCAGT	TACTACAGTC	CCTCCATTGG	CTTCTCCTAT	120
TCTTTGGGTG	AAGCTGCTTG	GTCTACGGGG	GGTGACACAG	CCATGCCCTA	CTTAACTTCT	180
TATGGACAGC	TGAGCAACGG	AGAGCCCCAC	TTCCTACCAG	ATGCAATGTT	TGGGCAACCA	240
GGAGCCCTAG	GTAGCACTCC	ATTTCTTGGT	CAGCATGGTT	TTAATTTCTT	TCCCAGTGGG	300
ATTGACTTCT	CAGCATGGGG	AAATAACAGT	TCTCAGGGAC	AGTCTACTCA	GAGCTCTGGA	360
TATAGTAGCA	ATTATGCTTA	TGCACCTAGC	TCCTTAGGTG	GAGCCATGAT	TGATGGACAG	420
TCAGCTTTTG	CCAATGAGAC	CCTCAATAAG	GCTCCTGGCA	TGAATACTAT	AGACCAAGGG	480
ATGGCAGCAC	TGAAGTTGGG	TAGCACAGAA	GTTGCAAGCA	ATGTTCCAAA	AGTTGTAGGT	540
TCTGCTGTTG	GTAGCGGGTC	CATTACTAGT	AACATCGTGG	CTTCCAATAG	TTTGCCTCCA	600
GCCACCATTG	CTCCTCCAAA	ACCAGCATCT	TGGGCTGATA	TTGCTAGCAA	GCCTGCAAAA	660
CAGCAACCTA	AACTGAAGAC	CAAGAATGGC	ATTGCAGGGT	CAAGTCTTCC	GCCACCCCCA	720
ACACTCGAG						729

- (2) INFORMATION FOR SEQ ID NO: 262: .
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 686 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:262:

```
60
GAATTCGGCC AAAGAGGCCT ACTACCATGT CCTCTTGGAG CAGACAGCGA CCAAAAAGCC
                                                                      120
CAGGGGGCAT TCAACCCCAT GTTTCTAGAA CTCTGTTCCT GCTGCTGCTG TTGGCAGCCT
CAGCCTGGGG GGTCACCCTG AGCCCCAAAG ACTGCCAGGT GTTCCGCTCA GACCATGGCA
                                                                       180
                                                                      240
GCTCCATCTC CTGTCAACCA CCTGCCGAAA TCCCCGGCTA CCTGCCAGCC GACACCGTGC
ACCTGGCCGT GGAATTCTTC AACCTGACCC ACCTGCCAGC CAACCTCCTC CAGGGCGCCT
                                                                      300
CTAAGCTCCA AGAATTGCAC CTCTCCAGCA ATGGGCTGGA AAGCCTCTCG CCCGAATTCC
                                                                      360
TGCGGCCAGT GCCGCAGCTG AGGGTGCTGG ATCTAACCCG AAACGCCCTG ACCGGGCTGC
                                                                       420
                                                                       480
CCTCGGGCCT CTTCCAGGCC TCAGCCACCC TGGACACCCT GGTATTGAAA GAAAACCAGC
TGGAGGTCCT GGAGGTCTCG TGGCTACACG GCCTGAAAGC TCTGGGGCAT CTGGACCTGT
                                                                       540
                                                                       600
CTGGGAACCG CCTCCGGAAA CTGCCCCCCG GGCTGCTGGC CAACTTCACC CTCCTGCGCA
CCCTTGACCT TGGGGAGAAC CAGTTGGAGA CCTTGCCACC TGACCTCCTG AGGGGTCCGC
                                                                       660
                                                                       686
TGCAATTAGA ACGGCACATT CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:263:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 571 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:

GAATTCGGCC	AAAGAGGCCT	AGGAGAGAGG	AGGTGCTGCA	AGACTCTCTG	GTAGAAAAAT	60
GAAGAGGGTC	CTGGTACTAC	TGCTTGCTGT	GGCATTTGGA	CATGCTTTAG	AGAGAGGCCG	120
GGATTATGAA	AAGAATAAAG	TCTGCAAGGA	ATTCTCCCAT	CTGGGAAAGG	AGGACTTCAC	180
ATCTCTGTCA	CTAGTCCTGT	ACAGTAGAAA	ATTTCCCAGT	GGCACGTTTG	AACAGGTCAG	240
CCAACTTGTG	AAGGAAGTTG	TCTCCTTGAC	CGAAGCCTGC	TGTGCGGAAG	GGGCTGACCC	300
TGACTGTTAT	GACACCAGGA	CCTCAGCACT	${\tt GTCTGCCAAG}$	TCCTGTGAAA	GTAATTCTCC	360
ATTCCCCGTT	CACCCAGGCA	CTGCTGAGTG	CTGCACCAAA	GAGGGCCTGG	AACGAAAGCT	420
CTGCATGGCT	GCTCTGAAAC	ACCAGCCACA	GGAATTCCCT	ACCTACGTGG	AACCCACAAA	480
TGATGAAATC	TGTGAGGCGT	TCAGGAAAGA	TCCAAAGGAA	TATGCTAATC	AATTTATGTG	540
GGAATATTCC	ACTAATTACG	GACAGCTCGA	G .			571

- (2) INFORMATION FOR SEQ ID NO:264:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 313 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:264:

GAATTCGGCC	AAAGAGGCCT	ACCAAGCAAG	AACAGCTAAA	ATGAAAGCCA	TCATTCATCT	60
TACTCTTCTT	GCTCTCCTTT	CTGTAAACAC	AGTCACCAAC	CAAGGCAACT	CAGCTGATGC	120
TGTAACAACC	ACAGAAACTG	CGACTAGTGG	TCCTACAGTA	GCTGCAGCTG	ATACCACTGA	180
AACTAATTTC	CCTGAAACTG	CTAGCACCAC	AGCAAATACA	CCTTCTTTCC	CAACAGCTAC	240
TTCACCTGCT	CCCCCCATAA	TTAGTACACA	TAGTTCCTCC	ACAATTCCTA	CACCTGCTCC	300
CCCCATACTC	GAG					313

- (2) INFORMATION FOR SEQ ID NO:265:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 343 base pairs.
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:265:

60	TCTCATTGAT	ACACAGATGA	TCAGCTCAGA	GCCTCTGAGT	TTCATGCCTA	GAATTCGGCC
120	AGGACCGAGG	TCCACACATG	CCCTGGGACG	AATCTGGGTA	AACCTTGGGA	TCCTCACGTC
180	GGAAGTAAAC	GAGTAAAATG	CAGAAACAGG	GGCCTGGTCC	TCAAGGGACT	CTCAGGGACA
240	CTGCCATCTT	AACCATGCGG	TGGGCCACTG	CTCCAGAGTT	GTCTGCCTGA	TCAGTCCCAC
300	TTTGTGCAGG	CTGTGTCCCT	TCGTGTGATT	GTGCTGTGCA	GAGCTGTGAA	GGAGTTCTTT
343		GAG	GGAGCCACTC	CGACCTGTCA	TCTATGCATT	TACCAGGATT

- (2) INFORMATION FOR SEQ ID NO:266:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 340 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:266:

GAATTCGGCC	TTCATGGCCT	ACAGGAAGCA	CAGAAAGACA	AAATTGGAAA	TGTCTAGTTC	60
CATGTTGATG	CCTTCAGAAG	ATGCAGGTGA	ACAAAGAGAG	GCCGGGAAAT	CAGAGCTAGT	120
TGAAACCCAA	CATGTTACCT	TAGAGCCAGA	GCTACCACTG	AGTTCTCTAA	GCACAGTCAA	180
ATCCCAGGAT	TATGCTGAAA	CAGAGCAGGA	${\tt GGTCATTTTA}$	CAAGCTATAG	AGGCCATGGA	240
GGCCACAGAA	GCCCTGGAGG	CCACAGACGC	CATGGAAGCC	ATAGATCAAG	GTAGCATGAA	300
AGATTATGGA	${\tt GATG {\it "}GATCT}$	CTAAGCTGGA	AAGACTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:267:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 367 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:

GAATTCGGCC TTCATGG	SCCT AGGCACCCC	T AGGCGACTCA	GGGTTCGGGG	AGGAGGAGAC	60
CAGACGGGGC CTTGGCT	TGGC ATGGCCTCT	T CACAGGGCTG	CCGTGAAGAA	ACTTCGTGAC	120
AGCGGCGGAG AGGTGGC	CCCA GGAGTGAGA	C AAGCAGGCCC	CGGGCCTTGG	ACTCAGACAT	180
GCTGGGTCCG GTCAGGC	CCCG TGTGGGAAC	C AGTGTTTTAG	GGACTGGGTA	CTCTCTTAGA	240
GAAGAACTGA TGCTAAA	AGAG TCAGGAAGA	C ACGAGCGGGC	CAAATAAAAG	AGGAAGAGAG	300
GCCCTCAGGA CATCATO	GCA CTTACTGCT	T GGATTTGTCT	CCCCGTCCAG	AATTCTGTGG	360
ACTCGAG					367

- (2) INFORMATION FOR SEQ ID NO:268:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:268:

GAATTCGGCC	TTCATGGCCT	ACTTGGGAAT	TAACATCTTC	GATAAATCCC	AGAAGTCTTT	60
AAGTGACAGT	AGAGAGCCTA	CAGAGAAGCC	TGGGAAAGCA	GAAAAATCTA	AGAGCCCAGA	120
AAAAGTGTCA	TCGTTCTCAA	ACTCCTCCTC	CAACAAGGAA	TCAAAAGTAA	ACAATGAGAA	180
GTTTCGTACT	AAGAGCCCCA	AGCCTGCCGA	AAGCCCCCAG	TCAGCCACTA	AGCAGTTGGA	240
TCAGCCCACT	GCTGCTTATG	AGTATTATGA	TGCTGGCAAT	CACTGGTGCA	AAGACTGCAA	300
CACCATCTGT	GGGACTCGAG					320

(2) INFORMATION FOR SEQ ID NO:269:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 542 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:269:

GAATTCGGCC	AAAGAGGCCT	AGGGATATTT	ACTGAGGGCC	TACAGGGTGC	CCAATACTGA	60
GCTAGCTAGG	CTCAGGGACC	TGTACACACA	TGCATTCTCC	ATTAGGGTTC	TGCAATCCTG	120
ACACTATTAC	TATCCTCAAG	GACTCTGCGC	ATCCAGACCC	GTCTATTAGT	TAGCAATGAG	180
AACCCCTGCC	ATGGCCAAGT	TACACAAGAA	CACCCTTGCC	CTACCTCTGC	CCCCTGCNGA	240
TCTGAAAGTA	ACCTGGTCTG	AAAGAGAAGT	AAAGATGTGG	CTGTCCCTGG	GTGCTAGGGA	300
GAGAGGCCTG	TTGACAAAGC	CACCAGCTGT	CTCCAGTCAG	AGCCAGGGAG	ACAGGCTTCT	360
CCCTGCACCA	TCCGCACTGC	CATAGACACA	GCAGCCAGCA	ACAGCACTTG	GACCATTACG	420
			CCTCCTGCTC			480
AGCCAGGGCA	CAAGACCTCA	CTTGGAACAA	GTACCAGGCA	GAAGAGAGCA	TNACCNGCCG	540
GT						542

- (2) INFORMATION FOR SEQ ID NO:270:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 613 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:270:

GAATTCGGCC	AAAGAGCCTA	GTCGATTGAA	TTCTAGACCT	GCCTCCTTTT	CCACTTGAAT	60
TGTTAAATTG	TTTACTCCAG	CATCTTTAAG	TATTCCTGTA	ACCTGCTGTA	CTATTCTTTG	120
TTCTAGCACA	TCAGATGTCA	CCTGTATATG	AATTGTTCCT	GCCACAATAC	TAGCAGAATG	180
ACGCCAAAAA	TGTGGGTCTC	GGTATGATAT	TAATCCTTCA	ATTTTCTGTA	TCTTTTCTAA	240
AGCAATATGT	AGTTCTTTTT	CATATTCTGG	TGGCAATCTC	AGGAGTAGAA	CCTGGCAGGC	300
ATCTTTAATC	AGTGGAACAA	CACTGAGAAA	TATTAATATA	GCAATAAAAA	GAGAACAGAG	360
TGGGTCAGCG	ATGAACCATC	CAAACTGCTC	TATAAGAACT	GTGGATACGA	TCACACCAAT	420
GCTGCCAAGA	GTATCTGCCA	AAACATGTAG	AAATACACCC	CTCATGTTAG	CATTCATGCC	480
TCCACCCGCA	GATCCGTGGC	TGTGACCATG	CCCATGGTCA	CTGTGTCCAT	GCATATGATG	540
TGAATGGCTG	TGATCAGATG	AGTGACAGCT	TCCTTGAGCC	TAAACCGTCG	ATTGAATTCT	600
AGACTGCCTC	GAG					613

- (2) INFORMATION FOR SEQ ID NO:271:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 763 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:271:

GAATTCGGCC AAAGAGGCCT AGTCTGGTTC TTGCTTGATC TGAGAGCTTC CATCAGTCTC 60
TTTTATTTCT TCTGTGGCTG GAACTTCCAA CTGGCTTGGT TCAGCTGATT CTTGTATCAC 120

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GGGGCCTTCT GACTCACTCT GATCAACCAG CTGGTTATTA ATCACAAGTC CTGGAAATGG
                                                                      180
TCTAATGACC GTGAATTTGA TAAACTCGGC AGAGTCTAAG ATCCTTCTCA TGGAGCTGAT
                                                                      240
TTCCAGGTAG CTGGGGGCTT TGAAAGGACA CCCCCGGGGG CATGCCATCA ACTACCACAC
                                                                      300
AGCCAGGGTT AATTGTGATT TCCCTGTAGG GAACTTTCAC AGGAAAACCC ATACCAATAG
                                                                      360
CTTCACCAAA TTTCCGACTA AAGAGGTCAT TCACTTGTTC TCTTAGCTGT CTAGCTTTTT
                                                                      420
CAACTITCGA GAGTCTTTCA TTATCATCAT CTGGAATGT CACCTGAATG ATGTTAAGGT
                                                                      480
CTTCAACACC TGATGCAGTA GTATTAACAT TGGGTGATGA ATTTATTTTT CTGGGAGGGC
                                                                      540
TCTTAGAGGA GGTGCTCTCC TTAATCGCCG TCTCAAACAT TTCGGGCTTT TTAATGATGA
                                                                      600
ACTTAATTTT GGCTTTGTTT CTGAGTATCT TCTCCAGCCT CGGAATGCCA AAAGTCGATG
                                                                      660
GTCTTCGGAA TGGCACACCC TCAGGTAAGC CTTCCACATA AAAGTCTTCC GGGAAAGACT
                                                                      720
CAAATAACGC GAACGGCACC TTCACAGCTT GTTTAAGGCC AAG
                                                                      763
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- (2) INFORMATION FOR SEQ ID NO:272:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 102 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:272:

GAATTCGGCC AAAGAGGCCT AATTAAGGAA ATACTTTGCA TAAATTAATC AGCCCCACAG
TATTTCCTTA ATAAGAATAA AATGAATTTA ACACTGATTC TG 102

- (2) INFORMATION FOR SEQ ID NO:273:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 565 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:273:

GAATTCGGCC A	AANAGGCCT	ACNCCAGTCA	AGGAAAGTCA	AGTNGCAAGA	AGGAANTGTC	60
TAAAAGAGAT GO	GCAAGGAGA	AAAAAGACAG	AGGAGTGACG	AGGTTTCAGG	AAAATGCCAG	120
TGAAGGGAAG G	CCCCTGCAG	AANACGTCTT	TAAGAAGCCC	CTGCCTCCTA	CTGTGAAGAA	180
GGAAGAGAGT CO	CCCCTCCAC	CTAAAGTGGT	AAACCCACTG	ATCGGCCTCT	TGGGTGAATA	240
TGGAGGAGAC AC	GTGACTATG	AGGAGGAAGA	AGAGGAGGAA	CAGACCCCTC	CCCCACAGCC	300
CCGCACAGCA CA	AGCCCCAGA	AGCGAGAGGA	GCAAACCAAG	AAGGAGAATG	AAGAAGACAA	360
ACTCACTGAC TO	GGAATAAAC	TGGCTTGTCT	GCTTTGCAGA	AGGCAGTTTC	CCAATAAAGA	420
AGTTCTGATC A	AACACCAGC	AGCTGTCAGA	CCTGCACAAG	CAAAACCTGG	AAATCCACCG	480
GAAGATAAAA CA	AGTCTGAGC	AGGAGCTAGC	CTATCTGGAA	AGGAGAGAAC	GAGAGGGAAA	540
GTTTAAAGGA AT	TAGGAAATC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:274:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 188 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:274:

AAGTTTTGTA AATAAATTTT CTGATAGGAT AAACTAGATT CCCTATGATC TCTTATTTAT	GAATTCGGCC	AAAGAGGCCT	ACTTAAATCA	AGGCCAAAAC	TAAGGATTTA	GGTAGAGTGT	60
AAGTTTTGTA AATAAATTTT CTGATAGGAT AAACTAGATT CCCTATGATC TCTTATTTAT	ATTAGCCTTT	CAATACCTGC	TTATTAAACA	GTTGTTTTCA	TACTTTTCAA	AGGTGTGTAG	120
							180
	TTATCATT						188

- (2) INFORMATION FOR SEQ ID NO:275:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 555 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:275:

GAATTCGGCC	AAAGAGGCCT	AGTCCGTGAT	GCGTACACAC	CTGTCGAGCA	CGAGCTCCTC	60
TAGGCGGTGC	AGGTCGCAGG	CCACGTACTC	CAGCGCCATG	TCGGTGATNC	GTGGGCACCA	120
CGAGAGGTCA	AGGNTGCGCA	GCTTGCGCAG	GTTCTCGGCC	ACGAGCTCCA	CGCCGTCGTC	180
GGTGACCTTG	GAGCAGCCCG	AGAGGCTGAA	CGCGGTGAGG	TTGGGCAGGN	TGTGCACCAC	240
${\tt GTTGACCACG}$	CCGTGGTTGG	TGATCTCCCA	GCAGGAGAGC	AGGCGCAGCG	TGTGCGTGCT	300
GTGGCCCTGG	CGCGCCGTGA	AGTAGGCCAG	CGCCGTGTCC	GTCACGTGGT	AGGCCTGCAG	360
GCTCAGCTCC	GCCAGGTTGG	GCAGCAGCTG	CGAGATGGCC	GCGATGGCGT	CGTCGGCCAC	420
${\tt GTTGATGCAG}$	TCACTCACGC	TCAGCGAGGT	GATGCGCGCG	CTCAGGCTGG	ACCACAGCCC	480
GGCCTCGGTG	AAGTCGTTGC	AGCCCGACAG	CTCCAGACGC	ACCACGCCCT	GCATCTGTTC	540
AAGCATAACC	TCGAG					555

- (2) INFORMATION FOR SEQ ID NO:276:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 496 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:276:

GAATTCGGCC	AAAGAGGCCT	ACAGTGAATA	ATCAGAAGTC	AGTTTGGGAG	AAGTCAAAAT	60
GGACACAATC	TTCTTGTGGA	GTCTTCTATT	$\tt GCTGTTTTTT$	GGAAGTCAAG	CCTCAAGATG	120
CTCAGCTCAA	AAAAATACCG	AATTTGCAGT	GGATCTTTAT	CAAGAGGTTT	CCTTATCTCA	180
TAAGGACAAC	ATTATATTTT	CACCCCTTGG	AATAACTTTG	GTTCTTGAGA	TGGTACAACT	240
GGGAGCCAAA	GGAAAAGCAC	AGCAGCAGAT	AAGACAAACT	TTAAAACAAC	AGGAAACCTC	300
AGCTGGGGAA	${\tt GAATTTTTG}$	TACTGAAGTC	${\tt ATTTTTCTCT}$	GCCATCTCAG	AGAAAAAACA	360
AGAATTTACA	TTTAATCTTG	CCAATGCCCT	CTACCTTCAA	GAAGGATTCA	CTGTGAAAGA	420
ACAGTATCTC	CATGGCAACA	AGGAATTTTT	TCAGAGTGCT	ATAAAACTGG	TGGATTTTCA	480
AGATACAAGG	CTCGAG					496

- (2) INFORMATION FOR SEQ ID NO:277:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 491 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:277:

GAATTCGGCC	AAAGAGGCCT	ACACCCAGAG	ACTGTAATTT	GTGTAGTTTT	TCTTTTTTAA	60
CTTAAAGACA	ACTTTAAAAA	ATACTTACAT	TAATGTTTTT	TATATTCATA	GGTGGGTATA	120
TTCGCCTCAT	TCAAATGGCA	GTAGCCTTGG	CTCACATAAG	ACATGTTTCA	TGTGATCTGT	180
ATCCTGGCAT	ACCAGTTATA	TTTTGTGGGG	ACTTTAATAG	TACACCATCA	ACAGGAATGT	240
ATCATTTTGT	CATCAATGGC	${\tt AGCATTCCAG}$	AGGATCATGA	AGACTGGGCT	TCCAATGGGG	300
AGGAGGAAAG	ATGCAATATG	TCTCTTACAC	ATTTCTTCAA	GCTGAAAAGT	GCTTGTGGTG	360
AACCTGCTTA	CACAAATTAT	GTTGGTGGCT	${\tt TTCATGGATG}$	TCTAGATTAC	ATTTTCATTG	420
ACTTAAATGC	TTTAGAGGTT	GAACAGGTGA	TTCCATTACC	TAGTCATGAA	GAAGTTACCA	480
CTCCACTCGA	G					491

- (2) INFORMATION FOR SEQ ID NO:278:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 369 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:

GAATTCGGCC	AAAGAGGCCT	ACAGAGAACA	GATAAAAATA	AGCCTGTGGA	ATGACCACTT	60
TGTGGAATAC	GGCAGAACCG	TGTGTATGTT	TCGCACAGAG	AAGATTCGGA	AGCTCGTAGC	120
CATGGGCATC	CCTGAATCTT	TGCGAGGGAG	ACTCTGGCTT	CTCTTCTCAG	ATGCGGTGAC	180
GGATCTTGCC	TCACACCCTG	GTTACTACGG	GAATCTGGTG	GAGGAGTCCC	TGGGGAAATG	240
CTGCCTGGTA	ACCGAGGAGA	TAGAACGAGA	CCTGCACCGC	TCCCTGCCAG	AGCACCCCGC	300
CTTCCAGAAC	GAAACGGGAA	TTGCTGCTTT	GAGGAGAGTC	TTGACGGCCT	ATGCCCACCG	360
GAGCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:279:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 528 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:279:

	GAATTCGGCC	AAAGAGGCCT	ACTCTCCCTT	TCCACTCCCT	GGTGTTCCCA	GGAGTGAGAT	60
	GAGGGTGGAG	GGGCCCAGCA	CAGCACCTTC	AACCTCAGGA	TGAGAGAGGC	CCTTTCACAA	120
	AACTCTAAGG	CAGGGGAACA	GGAAACAGAG	AAAGCCGGAG	AACCCCAGGA	GGGCCCCAAG	180
	AGCGGATTCT	GGTGATTATT	AATGTGCTTG	CCCAATGAAG	AAAGAATACT	GGCACTCTCT	240
	AGGTATGATG	AGAGCAGACA	GCAAACGTGG	GGCCTGTCTA	CAGTGATTCG	CTACCCCAAT	300
	GTATGGTCAT	CCACGTTAGA	AGCAGCAGTG	AAAGGCGTGT	TGCTTTTCAT	TATTAACTTC	360
	AAATCCCAGT	CCCTAAACCA	GCTCTTGACG	CCCCTCTGTC	AGGTGCTAAT	CCTGGAAACT	420
1	GGAGGCCACC	TGGTCTCCAC	TTTAGGTGAG	GAAAACCTGG	GAGAAGCCAT	CAGACTGCAC	480
	CTGTGGCATG	AGATGCTTTG	AGACAGGTCA	AGAGGAGGAG	CTCTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:280:
  - (i) SEQUENCE CHARACTERISTICS:

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<ul><li>(A) LENGTH: 323 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:280:	
GAATTCGGCC AAAGAGGCCT ACAGTGTCGG AGTAGATTTG AAACTGGAGG TGAAGGTAGG AGTAAGTGAT AGATTTTAGA ATTAGTGCTC AGAGCTGAAA TATCCAGTCC GTGAACTTAG AGGCCAGCCT TCATACCACT GTGATGACAG GAACTACCCT AATCTTTTCT GTCCTTTTCT CTCTGCTGTC CCTCGGGCTG CCAGGCCAGC AGCAACACCC ACAGGTAATC TCCCCGCTGA CTCCATCCAC TTGCTCTGCC CTCTGCCCTC TCTGTGCCCC GTTGCACCTG AGCGTACACC CCAGCAGTGG CATCCAACTC GAG	60 120 180 240 300 323
(2) INFORMATION FOR SEQ ID NO:281:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 337 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:281:	
GAATTCGGCC AAAGAGGCCT ACTCAGTCAG TACCATGCCA GTTACCTTTT TTCCTTGTGA CTTAATGAAT TGGATTTCC TCAATCTGTT ATTTGTAGGA GGTTTGTATG GGGCCAGGGT AGATTTCCAG ATTTCTGCCT CAGAGGTAGT CTTTTCACA TATGACACCT GGGTGTTTTCTGTGTGG CCACAAGTCT TCTGCCTCC TAAAAAAAATG TCTAGACCTT CTAGAAGGTC TTTTGCCGCT AATTCTGAAC TTTCCACTCC TTCCTTTGCA GCTGTGATTG GAGGGACATG GCCCAATGTAA ACCACCGCCC CCTCGAG	60 120 180 240 300 337
(2) INFORMATION FOR SEQ ID NO:282:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 194 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:282:	
GAATTCGGCC AAAGAGGCCT AGGCTCTTCC ACTTAATTTC ATACTTTCAG GTCTGGATGC CCATTTTAAT TCTTCTGAAA GCATGCCTCC TTCTGGCTTC AGGACTCCAT CTCCAGCCTT ATGATCTAAA AATAATGGAA AATTACCCGG TATCGTTAGA GCTACACCAA AATTGCATTG AGCCAAAACT CGAG	60 120 180 194
(2) INFORMATION FOR SEQ ID NO:283:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 296 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:283:

GAATTCGGCC	AAAGAGGCCT	AAAATCATCA	TATTCATAGA	GATATTAAAA	GTGCAAATAT	60
CTTACTGGAT	GAAGCTTTTA	CTGCTAAAAT	ATCTGACTTT	GGCCTTGCAC	GGGCTTCTGA	120
GAAGTTTTGC	CCAGACAGTC	ATGACTAGCA	GAATTGTGGG	AACAACAGCT	TATATGGCAC	180
CAGAAGCTTT	GCGTGGAGAA	ATAACACCCA	AATCTGATAT	TTACAGCTTT	GGTGTGGTTT	240
TACTAGAAAT	AATAACTGGA	CTTCCAGCTG	TGGATGAACA	CCGTGAACCA	CTCGAG	296

- (2) INFORMATION FOR SEQ ID NO:284:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 456 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:284:

GAATTCGGCC	AAAGAGGCCT	AGCAACATCC	ACGCAGCTGC	TCATCAGGTA	CGAGTGCTTC	60
CATATCCATT	TACCCACCAT	TGGCAATTTG	AAAGGACCAT	CCAGACCCCC	ATAGGATCCA	120
CATGGAACAC	CCAGAGGGCT	TTCCAAAAGC	TGACTACTCC	CAAGGTCGTC	ACCAAGCCAG	180
GCCATATCAT	TAACCCCATA	AAAGCAGAAG	ACGTGGGCTA	CCGGTCTTCC	TCAAGGTCGG	240
ACCTGTCTGT	CATACAGAGG	AATCCAAAAC	GAATCACCAC	ACGTCACAAA	AAACAGCTGA	300
AGAAATGCTC	TGTAGATTGA	GTTGCTGGAG	GAGTGACAGC	CAGGAGCCCT	GACTTCACTT	360
CCTTTGGTCC	AGTTTTACTC	TGATACAGGG	TGGATTCCAA	AACTGGCTCA	GTACATTGCA	420
TGTAGTTAAG	CCACATTTTA	AAAATAAAGG	CTCGAG			456

- (2) INFORMATION FOR SEQ ID NO:285:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 150 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:285:

GAATTCGGCC	AAAGAGGCCT	AAGGTCGGCC	TGTTCATCTT	GATTAGCATC	CAGGCCTTGG	60
AATATTTCAT	CAATGACAGC	TTTATCTTTG	ATATTCTTGA	TGGTGTTTGC	AAGCTCCTTT	120
GTAAGCAGCT	GCTTCAGCTC	ACCCCTCGAG				150

- (2) INFORMATION FOR SEQ ID NO:286:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 115 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:286:

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AATCCAAGCA ATAACCCAAG CAAAACTTCA GATGCACCTT ATGATTCTGC AGATGACTGG
TCTGAGCATA TTAGCTCTTC TGGGAAAAAG TACTACTACA ATTGTCGAAC TCGAG

(2) INFORMA	ATION FOR SEQ ID NO:287:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 278 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:287:	
AGATAAATGC CAGTAGAGGA CCTTTTATAT	GCTAGGAGAA GACTCAGATG AAGAAGAGGA AATGGATACC TCTGAAAGGA TGGTAGCCAA GATGATGAGA TGGGTTGCAC CTGGGGAATG GGAGAAGATG TGATGCTGAA GAGAACCCTA TTGTCTTAGA GTTTCAGCAG GAAAGGAGG AAAGGATCCC AAAAAGGCTC TCCAAGGCTT TTTTGACCGA GAAGGAGAAG TGAATTTGAT GAACAGGGAC AACTCGAG	60 120 180 240 278
(2) INFORMA	ATION FOR SEQ ID NO:288:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 364 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:288:	
ATTTAACCTT CATCCAGTAT TTTAAAATTT AACATTGATA	GGCCAACTGC CCAATAGTTT CCAGTAGAAA CATGGCCATA CCAGTCTAGA CTCATTTAAT CAATAGCACA ATCTAACCTA CACAAGAATA AGCAATCAAA AACATGTTTT TCATTTTTAC TTTCTTGCGG TCAATTTTTT TAATGATCTA TTTCAAAAATG ACAACTACTA TGGAATACTG AATACAAAGT TCAGTAACAC ACAACAACAG CAGCAACAAT ACCACAACCA CCACCACTGA ATGGTCTGGG ATGGCTGTTG TACTTAGTTA CGAAGAAGAG TGGGGACAGA AAATGAAGCT	60 120 180 240 300 360 364
(2) INFORMA	ATION FOR SEQ ID NO:289:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 471 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:289:	
TCAGAGACGG CCCTGTTTGC ACGGGGGAGC CCGGTGGTGA	GTATGTCCCA CCTAAAGGTC GGCTCTGCTG CCGACATCCC CATCAACATC ATCTCAGCCT GCTGACGGCC ACTGGGTCC CGCCCTCGGG CCGGGAGGAG TGAAGCGGCT GCGTAATGGC CACGTGGGGA TTTCATTCGT GCCCAAGGAG ACCTGGTGCA TGTGAAGAAA AATGGCCAGC ACGTGGCCAG CAGCCCCATC TCAGCCAGTC GGAAATTGGG GATGCCAGTC GTGTTCGGGT CTCTGGTCAG AAGGCCACAC CTTTGAGCCT GCAGAGTTTA TCATTGATAC CCGCGATGCA	60 120 180 240 300 360
	187	

GACCTGGAGG ACGGGACGT CAGGGTCACC TACTGCCCCA CAGAGCTCGA G	420 473
(2) INFORMATION FOR SEQ ID NO:290:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 281 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:290:	
GAATTCGGCC TTCATGGCCT AGATTGAGTC ACATTGTTCT CTTTGATCCA TTTTCTTTT GACAACATCA CTCAAACAAC CCTATTACTT CAGTAGCAAT GAACTGTCTC TGGATTTTA TAAGCATCTC ACT.:GTTCCT TTTCTTCAGC TGTATGGCAC CCTGTCTTCC TGTACACCA AGGCTCCTCA GCTGGGTAAG GTGAGCCAAC GTTACCAGGA GTATATGCTG AGAGGCCAT TCAAAGTCTT TCATAGAAGG CTGTGCTTGG GCAAACTCGA G	T 120 G 180
(2) INFORMATION FOR SEQ ID NO:291:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 250 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:291:	
GAAACTCTGC CCCTGAAGGT TTGTTTTCTA ATTCAGAGGT TTAAATTAAT CTAGCCCACTAATAAAAACC AGAGATCCTA TGGGAAATTT AGCCTAAGAC AGTGCTGGAA ATTGCCATAGTGATACAA AGAAGTGTTT GGCCACATTA CAGGTCTCAG ACTCAACTGC TATGTGGAATCCCGCTCTG TGCCTATGTC TTGCTTTTTT GCTGAGTTCC CTATTTCCAT ATCTCCAGGGATCCTCGAG	T 120 C 180
(2) INFORMATION FOR SEQ ID NO:292:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 264 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:292:	
GAAATGTCAG AGGCACATAA GCTTTTACAA AAATTGTTGG TTCATTGTCA GAAACTGAA AACACAGAAA TGGTGATCAG TGTCCTACTG TCCGTGGCAG AGCTGTACTG GCGATCTTC TCCCCTACCA TCGCGCTGCC CATGCTCCTG CAGGCTCTGG CCCTCTCCAA GGAGTACCG TTACAGTACT TGGCCTCTGA AACAGTGCTG AACTTGGCTT TTGCGCAGCT CATTCTTGG ATCCCAGAAC AGGCCCAACT CGAG	C 120 G 180
(2) INFORMATION FOR SEQ ID NO:293:	

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 416 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:293:

GAATTCGGCC	CTTCATGGCC	TAGGTTTCTC	CGTGTTGGTC	AGGCTGGTCT	CGAACTCCTG	60
ACCTCAGGTG	ATCCACCTGC	CTCAGCCTCC	CAAAGTGCTG	GGATTACAGG	CATGAGCCAC	120
CATGTCCTGC	TATAAATAAC	${\tt TTTTAATAGG}$	CTCTTTTTCT	GGCTTTTTTT	TTTAGTAACT	180
CAGCCCATTT	TCTTCTTCTC	AATCTGGTCT	TTGTTAATGT	TGATAACGCT	GTCTTACTTT	240
TAAATTGCCG	TGATTAGAAA	TTACTAGAGA	TATATAAACC	TAGTCTTTTG	GGGGATTTTG	300
AAAGGGTCAT	AGTATTCTTA	CTGTCTTTCA	AAATGTACCT	TATATTTGAA	CATTGGAAGA	360
TACGTGTTGC	TGAATACAAG	TTAGTTTCAT	ACACACACAT	ACACATGACA	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:294:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 458 base pairs
      - (B) TYPE: nucleic acid
      - (C) STRANDEDNESS: double
      - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:294:

GAATTCGGCC	TTCATGGCCT	ACTCCATTCC	CAGATAGAAA	GCTTGAATGA	AGAGTTGGTC	60
CAGCTGCTTC	TCATCCGAGA	TGAGCTGCAC	ACAGAGCAGG	ATGCCATGCT	GGTGGACATT	120
GAAGACTTGA	CCAGACATGC	TGAAAGTCAG	CAGAAGCACA	TGGCAGAGAA	AATGCCTGCA	180
AAGTGAAAAG	AAGCCATTCA	ACCAGAGAAC	AAGCTAGAAT	TTATTTTGCT	TCTGTGGTTG	240
TAAAAATGCT	GTTGCTAAAG	GTGGCGCAGA	AACAAATATC	AGTGTTAGTC	ATTGATAATG	300
TCTGAAGCTT	AATGTCCAGT	GATTGGCCTT	TGCTTCTTAA	TTTATTTTAA	TTTTTTACTT	360
GTGCCACTTA	ATATCAGGCA	TTTTAATAAA	ATATTGTTAC	AAAAAATGTA	CAGTACTGAC	420
ACCACCACAA	ATCATGGTTA	ATAAAAGAGA	GTCTCGAG			458

- (2) INFORMATION FOR SEQ ID NO:295:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 302 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:295:

GTGTAAAACC AA	TGCCAGGA AAACCA	AATA CACAAAAC	CC TCCACGGAGA	GGTCCTCTGA	60
GCCAGAATGG GT	CTTTTGGC CCATCC	CCTG TGAGTGGTG	GG AGAATGCTCC	CCTCCATTGA	120
CAGTGGAGCC AC	CCGTGAGA CCTCTC	TCTG CTACTCTC	AA TCGAAGAGAT	ATGCCTAGAA	180
GTGAATTTGG AT	CAGTGGAC GGGCCT	CTAC CTCATCCT	CG ATGGTCAGCT	GAGGCATCTG	240
GGAAACCCTC TO	CTTCTGAT CCAGGA	TCTG GTACAGCT	AC CATGATGAAC	AGCAGTCTCG	300
AG					302

(2) INFORMATION FOR SEQ ID NO:296:

7	PCT/US98/06956
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 412 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:296:	
CATGGATCTG CCTCCTGAGA GGGATGGAGA GAAGGGGAGG AGCACAAA CATGCCAAAA CTTGCACTTC CCAAAATGAA GGCTTCTAAG AGTGGGGT GAGAGACGTG GATCCTTCCC TTTCTAGTGC CACAGCAGG GGTAGCTT AAAGGCCAGC AGTGACGGTG GTAGGGGAGG ACTTGGTGCA ACAGCAAG TGAGGGTGTG AACCTCCACC GGCCACAGGT CCACATTCCC AGTTTGGG TGATCTCAGA TCCTCCAAGG CCAAGGTGGA GGTGAGCCAG CCTGAAGC TCCCAAACAT GATCTGTCTA CCGAAGGTGA CAGCAGAGGA TGTGGGCT  (2) INFORMATION FOR SEQ ID NO:297:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid	CA GCCTGCCACA 120 TC AAGACACAGA 180 TG CCACAGGAAG 240 GCT TTGCCAAACC 300 TG ACCTGCCTCT 360
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:297:	
GTGCTGGTGG CGCGGGAGT GCGCGTCAAG GTGAACGAGG CCTACCGG CTGCCTGCGT ACCCAGCGTC GCTCACCGAC GTCTCCCTGG CGCTGAGC AACGACTCAG GTATCTATCG CTGTGAGGTC CAGCACGGCA TCGATGAC GTGGAGGTCA AGGTCAAAGG GGTCGTCTTT CTCTACCGAG AGGGCTCT TTCTCCTTTT CTGGGGCCCA GGAGGCCTGT GCCCGCATTG GAGCCCAC ATCTCGAG	GA GCTGCGCCCC 120 TAG CAGCGACGCT 180 GC CCGCTATGCT 240
(2) INFORMATION FOR SEQ ID NO:298:	•
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 269 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:298:	

GAATAAGTAA	ATTCATGGAA	AGGAAGAAAT	TAAAAGAAAG	TGAGGAAAAG	GAAGTGCTTC	60
TGAAAACAAA	CCTTTCTGGA	CGGCAGAGCC	CAAGTTTCAA	GCTTTCCCTG	TCCAGTGGAA	120
CGAAGACTAA	CCTCACCAGC	CAGTCATCTA	CAACAAATCT	GCCTGGTTCT	CCGGGATCAC	180
CTGGATCCCC	AGGATCTCCA	GGCTCTCCTG	GATCCGTACC	TAAAAATACA	TCTCAGACGG	240
CAGCTATTAC	TACAAAGGGA	GGTCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:299:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 458 base pairs

```
(B) TYPE: nucleic acid
              (C) STRANDEDNESS: double
              (D) TOPOLOGY: linear
       (ii) MOLECULE TYPE: cDNA
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:299:
GAGCGACCTT TGGAATAGTT AAGCACAGGT CATTGTGGAC ATGAATTCAG GCCTCTGTAC
TAAAATCTAT TTCAGGGAAT GTTCTGTCTA GTGATTTGCT CACCATTTGA TATATAATGA
                                                                      120
ATTATAGGAC AAGTATAAGC TGATCTGCTA TAGCTGTCCA TCAGAGAGAA TACACGTGGC
TATAACATCT ATAACAAAAC GACGATTCCT CTACAAGAGG CTGTTTCTCA CTGCTAACGT
                                                                      240
TGGTGTTTCT GGCGTGGGAA GAAATGCACA GGCGTGCATG GCATGCACGT TCAGACAGCT
GCATTGTAAG AGTTCTGTCA TGCAGTCTGA AAAGGGAAGA AACAGGATGG CTTTCTGTAG
                                                                      360
CCACACCTGT GAGGCGTGAT GATTGTTGTA TTATTAGATT ACTGATTTTT CTTTTCTGAA
AATACATTIG AGTTTTAATC ACATCIGIGG AACTCGAG
                                                                      458
(2) INFORMATION FOR SEQ ID NO:300:
       (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 99 base pairs
             (B) TYPE: nucleic acid
             (C) STRANDEDNESS: double
             (D) TOPOLOGY: linear
       (ii) MOLECULE TYPE: cDNA
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:300:
GGGATGCCTG TTCTTGGGGT AGAGAAGTCA GGTAGCCCAG GGCCCGCACT CTCAATAGAC
                                                                       60
CTTCAGAGAA AAGGCATCGA GGTAAATGCC GCACTCGAG
(2) INFORMATION FOR SEQ ID NO:301:
       (i) SEQUENCE CHARACTERISTICS:
             (A) LENGTH: 569 base pairs
             (B) TYPE: nucleic acid
             (C) STRANDEDNESS: double
             (D) TOPOLOGY: linear
       (ii) MOLECULE TYPE: cDNA
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:301:
GGTCTAACAG TAACACTACT CAAGAGACCC TGGAAATAAT GAAAGAATCA GAAAAAAAAAC
TGGTGGAAGA ATCTGTAAAC AAAAACAAGT TTATATCTAA GACTCCAAGT AAGGAAGAAA
TTGAGAAAGA ATGTGAAGAT ACCAGTTTGC GTCAGGAGAC ACAGAGGCGG ACATCTAACC
                                                                      180
ATGGTCATGC CAGGAAAAGA GCCAAGTCTA ATTCCAAGCT AAAGTTGGTG CGTAGCCTGG
                                                                      240
CAGTGTGTGA GGAGTCCTCC ACCCCATTTG CTGATGGGCC ATTAGAAACC CAGGATATAA
                                                                      300
TTCAATTGCA CATCAGTTGC CCTTCTGACA AGGAGGAAGA AAAGTCCACA AAAGATGTCT
                                                                      360
CTGAAAAGGA AGACAAGGAC AAAAACAAAG AAAAGATCCC AAGGAAGATG CTGTCCAGAG
                                                                      420
ACTCCAGCCA GGAATATACG GACTCCACTG GAATAGACCT ACATGAATTT CTTGTAAATA
                                                                      480
CACTGAAAAA GAACCCAAGG GACAGAATGA TGCTGCTAAA ATTAGAACAG GAGATTCTGG
                                                                      540
AATTTATTAA TGACAACAAC CCACTCGAG
                                                                      569
(2) INFORMATION FOR SEQ ID NO:302:
```

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 311 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:302:

GCGATTGAAT	TCTAGACCTG	CCACCCAAAC	CCCAACTCTC	AGACTTACCT	CCCAAACCAC	60
AGATGAAGGA	CCTGCCCCCC	AAACCACAGC	TGGGAGACCT	GCTAGCAAAA	TCCCAGACTG	120
GAGATGTCTC	ACCCAAGGCT	CAGCAACCCT	CTGAGGTCAC	ACTGAAGTCA	CACCCATTGG	180
ATCTATCCCC	AAATGTGCAG	TCCAGAGACG	CCATCCAAAA	GCAAGCATCT	GAAGACTCCA	240
ACGACCTCAC	GCCTACTCTG	CCAGAGACGC	CCGTACCACT	GCCCAGAAAA	ATCAATACGG	300
GGGCACTCGA	G					311

- (2) INFORMATION FOR SEQ ID NO:303:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 683 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:303:

ACAGCATGAA	GGCAGAAGCC	AATGCCCTGC	ATCACAAACA	CGACAAGAGG	AAGCGTCCGG	60
GGAAGAATGC	ACCCCCAGGA	GGTGATGAGC	CACTGGCAGA	GACAGAGAGT	GAAAGCGAGG	120
CAGAGCTGGC	TGGCTTCTCC	CCAGTGGTGG	ATGTGAAGAA	AACAGCATTG	GCCTTGGCCA	180
TTACAGACTC	AGAGCTGTCA	GATGAGGAGG	CTTCTATCTT	GGAGAGTGGT	GGCTTCTCCG	240
TATCCCGGGC	CACAACTCCG	CAGCTGACTG	ATGTCTCCGA	GGATTTGGAC	CAGCAGAGCC	300
TGCCAAGTGA	ACCAGAGGAG	ACCTAAGCCG	GGACCTAGGG	GAGGGAGAGG	AGGGAGAGCT	360
GGCCCCTCCC	CGAAGACCTA	CTAGGCCGTC	CTCAAGCTCT	GTCAAGGCAA	GCCCTGGACT	420
CGGAGGAAGA	GGAAGAGGAT	GTGGCAGCTA	AGGAAACCTT	GTTGCGGCTC	TCATCCCCCC	480
TCCACTTTGT	GAACACGCAC	TTCAATGGGG	CAGGGTCCCC	CCCAGATGGA	GTGAAATGCT	540
CCCCTGGAGG	ACCAGTGGAG	ACACTGAGCC	CCGAGACAGT	GAGTGGTGGC	CTCACTGCTC	600
TGCCCGGCAC	CCTGTCACCT	CCACTTTGCC	TTGTTGGAAG	TGACCCAGCC	CCCTCCCCTT	660
CCATTCTCCC	ACCTGATCTC	GAG				683

- (2) INFORMATION FOR SEQ ID NO:304:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 653 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:304:

GAATTCGGCC	AAAGAGGCCT	AGAGATGTCT	ACTCTCAGCT	CACGCCTGTA	ATCCCAGCAT	60
TGTGGGGAGG	TCAAGTTGGG	TGGATTGCTT	GAGCCCAGGA	GTTTGAGACC	AGCCTAAGCA	120
ATAGGCAAAA	CCCTGTCTCT	ACAAAAATCA	GCCAGGTATG	GTAGTGTGTA	CCTGTAGTCC	180
TAGCTACTCA	GGAGGCTGAG	GTGGGAGGAT	CGCTTGAGCC	TGGGAGGTGA	AGGCTGAAAT	240
TAGCCATGAT	CATGCCACTG	CACCCCAAGC	CTGGGCAACA	GAGCAAGACC	TTGTCTCAAA	300
		TTGTATCTGT				360
AAAAAGTGTA	TTAAAGTACA	GTTATAGATT	AGAGTACAAA	ATGAATGAGT	ATATATGCGT	420

TTAAAAGTAT	GTATACATAT	CAGGAAAGGT	TACATGAGGA	TTTTCACTTT	CCACTTTATA	480
TCTCCCAGTA	TTTGAATTTT	TAATAACAAT	CTTTTTATCA	TAAAACTATA	TTAAATTAAA	540
CTTTTAGATT	TTTTAGTGGT	ATAAGTAGAA	CAGGAACCCT	AATACATTGT	TTTCTACTTT	600
TGTGATAAAG	ATAATTCATG	ATAGATGAAG	TTGCAAACCG	AAAGATCCTC	GAG	653

- (2) INFORMATION FOR SEQ ID NO:305:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 442 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:305:

GAATTCGGCC	TTCATGGCCT	AAGGTATTCC	AAAATGTCTA	ATTTATTTTA	TCCGATGGTA	60
AATGTAATAA	TTAAAGAAAG	AGGAAAGAAT	CATGAAAGGT	GGCCCTTAAA	GAGGGCTTCT	120
GGCAGAGTTA	GGTCAGAGGC	ACACTTTCTT	ACAGACTAAG	AGTTTTTAAG	TACTCAAGGT	180
GATGTTTATC	AGAAGCTTGG	ACTGCTTCTG	TGTCTTTTTA	TTGTGCTTAT	CTGGGAGGGA	240
GAGTTCTGTG	TCTGCTCCTA	TACATCTTTC	TGCAGCTGCA	GACATACTCC	CTGAGTCTGC	300
TTTTAGCTTT	CCTATCTTAG	TGCACCTGAA	GGGAAAGGAA	TGAGCTTATT	AAGGCCCACT	360
GTTTTACTGG	GGCCCATTGT	ATGAGAGTGA	AGTTTGGCAG	TTACCCAAGA	GACGTTCCCC	420
TCACCTCCCT	CCGGCGCTCG	AG				442

- (2) INFORMATION FOR SEQ ID NO:306:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 412 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:306:

GAATTCGGCC	TTCATGGCCT	ACCAATATGC	AAATCAGTAC	CTCTTCTCTT	AGAGGTGTTC	60
ATGCCCAAGC	TCCTCAGACA	AGTCCATCCC	ACTGTGTGGG	AGGAAGTTGA	AGGGTGAGGA	120
TTTTTAAGAT	TTTTATCTTG	CTTGAAGTTG	TGAAGACTCA	ATGACAAATG	GCTAGGTTTT	180
GAAGGGGTCT	TGGAAGTCAT	TACTGGGGAT	AGACCCCTCT	TGATACTTGT	CACATTAATA	240
TCTGCCCAGA	CTCTCACACA	TTCAGATGTT	TAACGTCACA	TGCATTAAGT	TCTTTTGGTT	300
GCATGAGACA	GTGATGCACA	GAAACTCACT	TAGGAAAGGA	GATAGGTGGC	AATAAAGAAA	360
ACAGGGATTT	CATAGGAATG	CAGTAAAAAA	AAAACCATGG	CCTAATCTCG	AG	412
	ATGCCCAAGC TTTTTAAGAT GAAGGGGTCT TCTGCCCAGA GCATGAGACA	ATGCCCAAGC TCCTCAGACA TTTTTAAGAT TTTTATCTTG GAAGGGGTCT TGGAAGTCAT TCTGCCCAGA CTCTCACACA GCATGAGACA GTGATGCACA	ATGCCCAAGC TCCTCAGACA AGTCCATCCC TTTTTAAGAT TTTTATCTTG CTTGAAGTTG GAAGGGGTCT TGGAAGTCAT TACTGGGGAT TCTGCCCAGA CTCTCACACA TTCAGATGTT GCATGAGACA GTGATGCACA GAAACTCACT	ATGCCCAAGC TCCTCAGACA AGTCCATCCC ACTGTGTGGG TTTTTAAGAT TTTTATCTTG CTTGAAGTTG TGAAGACTCA GAAGGGGTCT TGGAAGTCAT TACTGGGGAT AGACCCCTCT TCTGCCCAGA CTCTCACACA TTCAGATGTT TAACGTCACA GCATGAGACA GTGATGCACA GAAACTCACT TAGGAAAGGA	ATGCCCAAGC TCCTCAGACA AGTCCATCCC ACTGTGTGGG AGGAAGTTGA TTTTTAAGAT TTTTATCTTG CTTGAAGTTG TGAAGACTCA ATGACAAATG GAAGGGGTCT TGGAAGTCAT TACTGGGGAT AGACCCCTCT TGATACTTGT TCTGCCCAGA CTCTCACACA TTCAGATGTT TAACGTCACA TGCATTAAGT GCATGAGACA GTGATGCACA GAAACTCACT TAGGAAAGGA GATAGGTGGC	GAATTCGGCC TTCATGGCCT ACCAATATGC AAATCAGTAC CTCTTCTCTT

- (2) INFORMATION FOR SEQ ID NO:307:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 239 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307:

GGGGTTGTCT GAGGCCCAGA GGTCGTATAA GGGCCGCTCT ACGGTGTCCT GGGGCCCGGG

Maria Maria de Maria de Caractería Maria de Caractería de WO 98/45437

PCT/US98/06956	
CTTGGCCCTT GTTGCAGAAG GGTTGAGGAG CCGGGCTGGG CCCTGCGCAC CTCCCGGGGC AGCTCGCCCT GCTTGGCCAG CTTCTCCCAT AGCTGCTCCT TCCGCCTGAG CTTCTTGGCG TTGGGGACCT GGTGGGCGAG GACGTCTTTG GGGGCAGGGA CTTTTGGATGT GTTCTCGAG	120 180 239
(2) INFORMATION FOR SEQ ID NO:308:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 533 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:308:	
GCGCACCATC CTGGGAAGTG CATGTCTCAG ACCAACTCCA CCTTCACCTT CACCACCTGT CGCATCCTGC ATCCTTCAGA TGAGCTCACT CGGGTCACAC CAAGCCTTAA CTCAGCCCCA ACCACGAGAC CAGCCACTTG AAATCCACGC CGGTGGCCAC ACCATGCACT CACCAGGAGAC TGAGCCTGCC TGAGTCCTTC ACTAACACCC GTGAGTCCAC GACCACCATG AGACACTCCC TGGGGCTCGT GTGGGTCGTT GAGGCCGAG GCCACCATG GCCACCATG ACCACCATG ACCACCAGA GCCACCATG GCCCCCCAGA GCCACCATG GCCCCCCAGA TCCCCCAGAC TCCCCCCACAC TCCCCCCAAC TCCCCCCAAC TCCCCCCAAC TCCCCCCAAC ACCCCCCAAC ACCCCCCAC ACCCCCCAC ACCCCCC	60 120 180 240 300 360 420 480 533
(2) INFORMATION FOR SEQ ID NO:309:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 297 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:309:	
GAATTCGGCC AAAGAGGCCT ACCCTAAAAC ATTTATTCA AGGAGAAAAG AAAAAGGGGG GGCGCAAAAA TGGCTGGGGC AATTATAGAA AACATGAGCA CCAAGAAGCT GTGCATTGTT GGTGGGATTC TGCTCGTGTT CCAAATCATC GCCTTTCTGG TGGAGGGCTT GATTGCTCCA GGGCCCACAA CGGCAGTGTC CTACATGTCG GTGAAATGTG TGGATGCCCG TAAGAACCAT CACAAGACAA AATGGTTCGT GCCTTGGGGA CCCAATCATT GTGGCAAGAT CCTCGAG	60 120 180 240 297
(2) INFORMATION FOR SEQ ID NO:310:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 248 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:310:	

GGTCAGTTTT AGGACACTTG AACACTTCTT TTCCCCCCTC CCCAGTTCTC CAGGTGCGTT

ACCTCGAG	248
(2) INFORMATION FOR SEQ ID NO:311:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 343 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:311:	
GAATTCGGCC AAAGAGGCCT AGGTAAATAA CTAATATTGA TGTATTTTA TATTTTAATA TAGACTAGTA AACTATGCAG AGTTAAGTGT TACATTAGAA TCTTGAACTC TCCTAACATT TCTCTTCCTC AGTTTCCTAT TGTTTTGGTA GAGTATGTAG ACATTTGCGA GATTAATTTA GAGTTGGTAG ATACATTCTG GATTTCATT TACTTTAGAT AGCAGGTTTG GCACTTTAAA TATATTTAAT TCAGTAAGAG AATAACTGAG TATGAGCTGT ATCCTCATCT TACTGTTGAA GACATCCCAA ATAGTTGGGT GTGCACTGT GCGGGATCTC GAG	60 120 180 240 300 343
(2) INFORMATION FOR SEQ ID NO:312:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 268 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:312:	
GAATTCGGCC AAAGAGGCCT ACGGGGAGGC GCGCCCGCGC TGAGTCGGCG GCGGGTAGCC ACTCCATGCC CTTGTCCGAT GGTTTGCAAC TCCGATTTG CACACCGCTC CACCGTGCCC CCCAGCGAC ACCCATTCAC ACTCACGCCA ACACTCTCGC TGAACACTTT TATAATTGTT AGGCGTGGCC GTTGGGACTT TGGGCGCAGC GCGCTGATA CTGCGTCTGG AGGATTGATA TTTACTTTTG CATTGCGGTT ACCTCGAG	60 120 180 240 268
(2) INFORMATION FOR SEQ ID NO:313:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 354 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:313:	
GTCTCTCGCC GCCGGAGGAA GATGANGCTG AAGATTGGAT TCATCTTACG CAGTTTGCTG GTGGTGGGAA GCTTCCTGGG GCTAGTGGTC CTCTGGTCTT CCCTGACCCC GCGGCCGGAC GACCCAAGCC CGCTGAGCAG GATGAGGGAA GACAGAGATG TCAATGACCC CATGCCCAAC CGAGGCGGCA ATGGACTAGC TCCTGGGGAG GACAGATTCA AACCTGTGGT ACCATGGCCT CATGTTGAAG GAGTAGAAGT GGACTTAGAG TCTATTAGAA GAATAAACAA GGCCAAAAAT GAACAAGAGC ACCATGCTGG AGGAGATTCC CAGAAAGATA TCATACTTCT CGAG	60 120 180 240 300 354
GAACAAGAGC ACCATGCTGG AGGAGATTCC CAGAAAGATA TCATACTTCT CGAG	354

- (2) INFORMATION FOR SEQ ID NO:314:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 514 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:314:

GAATTCGGCC	AAAGAGGCCT	AGTGCAAGAA	CATGAAGCAC	CTGTGGTTTT	TCCTCCTGCT	60
GGTGGCAGCT	CCCAGATGTG	TCCTGTCCCA	GGTGCACCTG	CAGGAATCGG	GCCCGGGACT	120
GTTGAAACCT	TCGGACACCC	TGTCCCTCAC	CTGCTTTGTC	TCGGGTTACT	CCCTCAGTAG	180
TGTTCACTAT	TGGGGCTGGA	TCCGCCAGTC	CCCAGGGAAA	GGACTGGAGT	GGATTGGGAA	240
CATCCATCAC	AATGGTAGAA	CCAATTACAA	CCCGTCCCTC	GCCAGCCGCG	GTTCCATCTC	300
AGCCGACACG	TCC.AAGAACT	CCCTCTCCCT	GAATCTGACC	TCTGTGACCG	CCGCAGACTC	360
GGCCGTCTAT	TTCTGTGCGA	GCGGCCCTAT	TGCCTCCTTT	GAATCGACGA	CTCTAAAGGT	420
GGGCGGAGAC	TTTCACTCCT	GGGGCCAGGG	AATCCTGGTC	ACCGTCTCCT	CAGCATCCCC	480
GACCAGCCCC	AAGGTCTTCC	CGCACAGCCT	CGAG			514

- (2) INFORMATION FOR SEQ ID NO:315:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 215 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:315:

GAATTCGGCC	AAAGAGGCCT	AGGACACTAG	AATTATTAGT	GTTCATTTTC	ATCTAAGATC	60
TTTATTCTCT	AACGTTCTTG	GTCCTATTGA	AACATTGCAG	TATGCAAAAC	TACTGCAATG	120
TTAAACCCAA	GAGAAAAGCC	ATTATCATGT	GTATGCTGGT	CATCATGATC	AGTGTGGTAC	180
AATTTTTAAA	AATAAACTAT	CATGCCCTTC	TCGAG		•	215

- (2) INFORMATION FOR SEQ ID NO:316:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 788 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:316:

a	aaaaamamma	CTCCTGGCCA	COOMCOMCOO	CCCCCCCCCC	aaaaaaaaaa	60
GAATTATGTA	CGCCCTCTTC	CTCCTGGCCA	GCC1CC1GGG	CGCGGCTCTA	GCCGGCCCGG	00
TCCTTGGACT	GAAAGAATGC	ACCAGGGGCT	CGGCAGTGTG	GTGCCAGAAT	GTGAAGACGG	120
CGTCCGACTG	CGGGGCAGTG	AAGCACTGCC	TGCAGACCGT	TTGGAACAAG	CCAACAGTGA	180
AATCCCTTCC	CTGCGACATA	TGCAAAGACG	TTGTCACCGC	AGCTGGTGAT	ATGCTGAAGG	240
ACAATGCCAC	TGAGGAGGAG	ATCCTTGTTT	ACTTGGAGAA	GACCTGTGAC	TGGCTTCCGA	300
AACCGAACAT	GTCTGCTTCA	TGCAAGGAGA	TAGTGGACTC	CTACCTCCCT	GTCATCCTGG	360
ACATCATTAA	AGGAGAAATG	AGCCGTCCTG	GGGAGGTGTG	CTCTGCTCTC	AACCTCTGCG	420
AGTCTCTCCA	GAAGCACCTA	GCAGAGCTGA	ATCACCAGAA	GCAGCTGGAG	TCCAATAAGA	480

TCCCAGAGCT GGACATGACT GAGGTGGTGG CCCCCTTCAT GGCCAACATC CCTCTCCC TCTACCCTCA GGACGCCCC CGCAGCAAGC CCCAGCCAAA GGATAATGGG GACGTTTGCC AGGACTGCAT TCAGATGGTG ACTGACATCC AGACTGCTGT ACGGACCAAC TCCACCTTTG TCCAGGCCTT GGTGGAACAT GTCAAGGAGG AGTGTGACCG CCTGGGCCCT GGCATGGCCG ACATATGCAA GAACTATATC AGCCAGTATT CTGAAATTGC TATCCAGATG ATGATGCACA TGCTCGAG	540 600 660 720 780 788
(2) INFORMATION FOR SEQ ID NO:317:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 214 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:317:	
GAATTCGGCC AAAGAGGCCT AAATCATCCT GATGATGGTT TTCTTACATA AACATGAGCT TCTGACCATG TACCATGGAT GGGTTCTCAC TTCCTGCTAT ATCCTGATCA TCACTATTGC AAATATTGCA AATTTGGCCA GTACTGCTAC TGCAATCACA ATCCAAAGGG ATTGGATTGT TGTTGTTGCA GGAGAAGACA GAAGCAAACT CGAG	60 120 180 214
(2) INFORMATION FOR SEQ ID NO:318:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 267 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:318:	
GTTGTCTTTT TTCCCCTTTA TAGCTGCTGG AGTGAATTTT AGAAAGCCTA AGTCATACAT CACATTGCTT CATGGCATC CCAGTACACT TTGGATTTTA TTTTACATCC TTACTGATCT GATTCTCATC TCTGTCTCTT CATGGTTCTC TGCCTTCTAG TTACACTGGT GACCTTTCAA AACCTTTACC ACATTGAGTT CATTCCTTAC TTTTCACTCT TTCTCTGCCT GGAGTGTTCT GCCCCATCTT TACGTGGCAC GCTCGAG	60 120 180 240 267
(2) INFORMATION FOR SEQ ID NO:319:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 256 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:319:	
GAAGCTTTCA GGCTATCTTC TAGTCAAGAT GAGTGATAAG CCAGACTTGT CGGAAGTGGA GAAGTTTGAC AGGTCAAAAC TGAAGAAAAC TAATACTGAA GAAAAAAAAT ACTCTTCCCT CAAAGGAAAC TATCCAGCAA GAGAAAGAGT GTGTTCAAAC ATCATAAAAT GGGGATCGCC TCCCAACAGC AGATTTCGAC ATTACCTGAG AGTCTTGATT TTAGGCTTGT TTTTTGTAAA CCCATGTGTT CTCGAG	60 120 180 240 256

- (2) INFORMATION FOR SEQ ID NO:320:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 304 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:320:

GCTGCGTGTG	ATGGAGACCA	AACCCGACAA	GGCAGTGTCC	ATCATTGAGT	GTGACATGAA	60
CGTGGACTTT	GATGCTCCCC	TGGGCTACAA	AGAACCCGAA	AGACAAGTCC	AGCATGAGGA	120
GTCGACAGAA	GGTGAAGCCG	ACCACAGTGG	CTATGCTGGA	GAGCTGGGCT	TCCGCGCTTT	180
CTCTGGATCT	GGCAATAGAC	TGGATGGAAA	GAAGAAAGGG	GTAGAGCCCA	GCCCCTCCCC	240
AATCAAGCCT	GGAGATATTA	AAAGAGGAAT	TCCCAATTAT	GAATTTAAAC	TTGGCGCGCT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:321:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 298 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:321:

GAATTCGGCC	AAAGAGGCCT	ACTCTTACAC	CTTCCGCTCC	GTGGGCACCT	TCAATATCAT	60
CGTCACGGCT	GAGAACGAGG	TGGGCTCCGC	CCAGGACAGC	ATCTTCGTCT	ATGTCCTGCA	120
GCTCATAGAG	GGGCTGCAGG	TGGTGGGCGG	TGGCCGCTAC	TTCCCCACCA	ACCACACGGT	180
ACAGCTGCAG	GCCGTGGTTA	GGGATGGCAC	CAACGTCTCC	TACAGCTGGA	CTGCCTGGAG	240
GGACAGGGGC	CCGGCCCTGG	CCGGCAGCGG	CAAAGGCTTC	TCGCTCACCG	TGCTCGAG	298

- (2) INFORMATION FOR SEQ ID NO:322:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:322:

GCGCCGTGTC	CTTTTGCGTT	GGTACCAGCG	GCGACATGAC	GGGGTACACT	CCGGATGAGA	60
AACTGCGGCT	GCAGCAGCTG	CGAGAGCTGA	GAAGGCGATG	GCTGAAGGAC	CAGGAGCTGA	120
GCCCTCGGGA	GCCGGTGCTG	CCCCCACAGA	AGATGGGGCC	TATGGAGAAA	TTCTGGAATA	180
AATTTTTGGA	GAATAAATCC	CCTTGGAGGA	AAATGGTCCA	TGGGGTATAC	AAAAAGAGTA	240
TCTTTGTTTT	CACTCATGTA	CTTGTACCTG	TCTGGATTAT	TCATTATTAC	ATGAAGTATC	300
ATGTTTCTGA	AAAACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:323:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:323:

GCAAAAATCT	CAGGCCCCAG	AAAAGCCTCT	TGTCATCTCT	CAGATGGGTT	CCAAAAAGAA	60
GCCCAAAATT	ATCCAGCAAA	ACAAAAAAGA	GACCTCGCCT	CAAGTGAAGG	GAGAGGAGAT	120
GCCGGCAGGA	AAAGACCAGG	AGGCCAGCAG	GGGCTCTGTT	CCTTCAGGTT	CCAAGATGGA	180
CAGGAGGGCG	CCAGTACCTC	GCACCAAGGC	CAGTGGAACA	GAGCACAATA	AGAAAGGAAC	240
CAAGGAAAGG	ACAAATGGTG	ATATTGTTCC	AGAACGAGGG	GACATCGAGC	ATAAGAAGGA	300
ACTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:324:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 299 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:324:

GCACTTCTGA	GAGGATGCTG	GGAATCTGCA	GGGGGAGACG	GAAATTCTTG	GCTGCCTCGT	60
TGAGTCTTCT	CTGCATCCCA	GCCATCACCT	GGATTTACCT	GTTTTCTGGG	AGCTTCGAAG	120
ATGGAAAGCC	CGTGTCTCTG	TCACCGCTGG	AGTCCCAGGC	ACACAGCCCC	AGGTACACGG	180
CCTCCAGCCA	GCGGGAGCGC	GAGAGCCTGG	AGGTGCGCAT	GCGCGAGGTG	GAGGAGGAGA	240
ACCGCGCCCT	CCGCAGGCAG	CTCAGCCTGG	CCCAGGGCCG	AGCCCCACCC	ATCCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:325:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 292 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:325:

GAATTCGGCC	TTCATGGCCT	ACTCCAAACT	CATGCCCTTG	TTTTTATCTC	TGCCCTTGGA	60
TGGCTGTCTT	CTATTTTCAC	TCACAATTTC	AACACATTTT	GACTTGCTCG	TGTCACCTAG	120
GGTTTCCGCC	TCAGGTATGT	CTTCTTCCTT	AATTTCTTTG	CCGTCTTTGG	TGCTGTTGAC	180
CTCACCCTTT	CTGGGGTCTT	CCTATTGGTC	TCAGCTTCAG	GTTTGCAGCC	GCCCCTGGTT	240
TOTOALOT	TOCTOTOTO	CCCTCTTCCC	CTCCTTCTCA	CCCACCCTCC	AC	292

- (2) INFORMATION FOR SEQ ID NO:326:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 345 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:326:

GAATTCGGCC	TTCAGACTTG	AAGTGGAGAA	GGCTACGATT	TTTTTGATGT	CATTTTGTGT	60
AAGGGCGCAG	ACTGCTGCGA	ACAGAGTGGT	GATAGCGCCT	AAGCATAGTG	TTAGAGTTTG	120
GATTAGTGGG	CTATTTTCTG	CTAGGGGGTG	GAAGCGGATG	AGTAAGAAGA	TTCCTGCTAC	180
AACTATAGTG	CTTGAGTGGA	GTAGGGCTGA	GACTGGGGTG	GGGCCTTCTA	TGGCTGAGGG	240
GAGTCAGGGG	TGGAGACCTA	ATTGGGCTGA	TTTGCCTGCT	GCTGCTAGGA	GGAGGCCTAG	300
TAGTGGGGTG	AGGCTTGGAT	TAGCGTTTAG	AAGGGCAAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:327:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 474 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:327:

GAATTCGGCC	TTCATGNCCT	ACCTTTCCGT	CCGTTCTTTC	ACGCCTTCCT	CCTCATTTTC	60
${\tt CTTCCTTCTA}$	TTTTCCCTTC	CCTCTTTCCG	CTTTCCTGCC	CCGTTTCCTT	CCTCCCTCCC	120
TTCCTCCTTC	CTTCCTTCCT	CTGCGTTCTT	CCTCTCTCCT	TTGTTCCTTC	CTCCTCCTCC	180
CCACTCCCTT	TTCCTCTCCT	CTTCCCACCC	CAGTCTCCTA	CTCCCCAGTC	CTCCCATCCC	240
CATGGAACAT	ACACCTGCTT	TGTCTGGGAG	CCACGTTATT	CCTGCCAGCC	AGACCCTGGC	300
CAGGAGGATC	AGGGTCACGG	TCAGCTTGGG	CCGAGAACCC	TTCACATGAG	ACAAGCTCCT	360
CTGCCAGGGT	TTCCTGTGGG	AAAGGCCCCA	CTTCCCGACC	CTCCTGGGCC	ACTGCATGGG	420
GTCCCCTCTT	CGGCTTCTTC	TCCCCTCTCC	ACCCGGCAGC	CCCCCCAGCT	CGAG	474

- (2) INFORMATION FOR SEQ ID NO:328:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 556 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:328:

GAATTCGGCC	AAAGAGGCCT	AATTTACTCC	CCAATATAAA	ACATTTTACC	TGCGATCTAT	60
GTGTACATAT	TGAATGATGT	GTAACAATAT	CATAATTTTT	ATGTTCTGCA	TTTTTTCACT	120
TATATATCTT	TATTTAAATG	GACTTAACTT	TACTAATGGA	GTAATTTTTA	GCTTTCAGAA	180
GGAGTTCTCA	CTCGAAGATA	AAGAACAGCT	CGCTAACCAC	GAAAGAGGAA	TCGATGCTCA	240
GCTTTTAGTT	GCACTTCCTA	AAGTTGCAGA	ATTAAGACAA	ATCTTTGAAC	CAAAGAAGAA	300
AGAATTCTTA	GAAATGAAAA	GAAAAGAAAG	AATTGCCAGG	CGCCTGGAAG	GGATTGAAAA	360
TGACACTCAG	CCCATCCTCT	TGCAGAGCTG	CACAGGATTG	GTGACTCACC	GCCTGCTGGA	420
GGAAGACACC	CCTCGATACA	TGAGAGCCAG	CGACCCTGCC	AGCCCCCACA	TCGGCCGATC	480
AAATGAAGAG	GAGGAAACTT	CTGATTCTTC	TCTAGAAAAG	CAAACTCGAT	CCAAATACTG	540
CACAGAAACC	CTCGAG					556

- (2) INFORMATION FOR SEQ ID NO:329:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 385 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:329:

GAATTCGGCC	AAAGAGGCCT	ACAAAACCAT	CCATAAATAA	ACAAAGCTAA	GAAAGCTAAG	60
AAACAAAGCT	AAGAAACAAA	GACTGAGGTG	AGGGAGATTT	GAGTATTTTT	TTTTCCTCTA	120
CCAACAAGTG	AAGAATTGAA	CACCTTAATC	CATCTGATCT	CCCAGGTGGA	AGCCACAAAT	180
CTTTTTTTT	GTTTTGCTCA	GCATATTGGC	ACAGTGAGAA	ATTCATTTTA	TACTCTCTGG	240
CATCTCTCTT	GTAAACTCAC	CAAGTCTCAA	TAAGTTCACA	AAGAAGGCAG	AGACAAATAA	300
CCCTAGAATG	CAGGTGATTG	TTTATTTATG	TATTTTCCTT	GTTACATACC	CACCTATACC	360
CAAGGCCTTT	GCAGAAAAGC	TCGAG				385

- (2) INFORMATION FOR SEQ ID NO:330:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 696 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:330:

CTCGGTAATC ACAACAACA CGGAGCAATC TCAATGCTGT TTATCCGGAG GACAGTCTGC 120 GGGGTCGTGA CGATTCTTTT CTTCTTGAAG TTTTTCCTTT TCCTGAACAAG ATCCTTTCCG 240 AGGAGTGGCT TGCCAAGCAG CGTGAAGTTG TCTGCCCCAA CCAGCAGGAC CTTCTCACACGC CAGACTCTCC CTCCACACCAC AAGGTCTAGT TCATTTCCAA TTAAGATCAG GTCTTCAGAG 360 GTCACCTTCC ACTGGCGGCT GGCAAAGTGC ACCACGGCAA AGGCCTGCC ATACTGCCC 420 GTGACGATCA TCTCATTCAC TTTCTTCACG ACCTGCAAC GGTGTCTGGT CTCCTCAACT 480 GGGTCTGGCA GAACAACTTC TGGCCAAGGT GGTGAACTCA GGGATGTTTT AGGAACATAT 540 CCTGGTAGAT ATGAAGTGCT CTGTGAATTG AACCTTCGAG AAGCAGACCA AAGGGAGGCT 600
CTTGGCCATG ATTCTGTCTT TTCAATGACT GTGGCTTCTA CTCGAACAAG ATCCTTTCCG 240 AGGAGTGGCT TGCCAAGCAG CGTGAAGTTG TCTGCCCCAA CCAGCAGGAC CTTCTCCAGT 300 CGAATTCTCT CTCCACACGC AAGGTCTAGT TCATTTCCAA TTAAGATCAG GTCTTCAGAG 360 GTCACCTTCC ACTGGCGGCT GGCAAAGTGC ACCACGGCAA AGAGCCTGCC ATACTGCCCC 420 GTGACGATCA TCTCATTCAC TTTCTTCACG ACCTCTGCAT GGTGTCTGGT CTCCTCAACT 480 GGGTCTGGCA GAACAACTTC TGGCCAAGGT GGTGAACTCA GGGATGTTTT AGGAACATAT 540
AGGAGTGGCT TGCCAAGCAG CGTGAAGTTG TCTGCCCCAA CCAGCAGGAC CTTCTCCAGT 300 CGAATTCTCT CTCCACACGC AAGGTCTAGT TCATTTCCAA TTAAGATCAG GTCTTCAGAG 360 GTCACCTTCC ACTGGCGGCT GGCAAAGTGC ACCACGGCAA AGAGCCTGCC ATACTGCCCC 420 GTGACGATCA TCTCATTCAC TTTCTTCACG ACCTCTGCAT GGTGTCTGGT CTCCTCAACT 480 GGGTCTGGCA GAACAACTTC TGGCCAAGGT GGTGAACTCA GGGATGTTTT AGGAACATAT 540
GGAATTCTCT CTCCACACGC AAGGTCTAGT TCATTTCCAA TTAAGATCAG GTCTTCAGAG 360 GTCACCTTCC ACTGGCGGCT GGCAAAGTGC ACCACGGCAA AGAGCCTGCC ATACTGCCCC 420 GTGACGATCA TCTCATTCAC TTTCTTCACG ACCTCTGCAT GGTGTCTGGT CTCCTCAACT 480 GGGTCTGGCA GAACAACTTC TGGCCAAGGT GGTGAACTCA GGGATGTTTT AGGAACATAT 540
GTCACCTTCC ACTGGCGGCT GGCAAAGTGC ACCACGGCAA AGAGCCTGCC ATACTGCCCC 420 GTGACGATCA TCTCATTCAC TTTCTTCACG ACCTCTGCAT GGTGTCTGGT CTCCTCAACT 480 GGGTCTGGCA GAACAACTTC TGGCCAAGGT GGTGAACTCA GGGATGTTTT AGGAACATAT 540
GTGACGATCA TCTCATTCAC TTTCTTCACG ACCTCTGCAT GGTGTCTGGT CTCCTCAACT 480 GGGTCTGGCA GAACAACTTC TGGCCAAGGT GGTGAACTCA GGGATGTTTT AGGAACATAT 540
GGGTCTGGCA GAACAACTTC TGGCCAAGGT GGTGAACTCA GGGATGTTTT AGGAACATAT 540
CCTGGTAGAT ATGAAGTGCT CTGTGAATTG AACCTTCGAG AAGCAGACCA AAGGGAGGCT 600
GCTCCGGGCC CCGAAGGTCT CAGGATGCTG TGGCTGCACG CGGACGCCAG CCGCCCTAAG 660
GTGACCGTCA GGGAAGATGC TGCCATGGCC GCCGCC 696

- (2) INFORMATION FOR SEQ ID NO:331:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 378 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:331:

GAATTCGGCC	AAAGAGGCCT	AATTTTTTGT	ACATCTGGGC	CCTTAGTTTT	TATTCTGTTT	60
ATTATATGTC	TCTGTCTCTC	TCTATTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	120
GTGTGTGTGT	GTGGTGCAGG	AGTGCCACCC	CCAGGGCCCT	GTCAACCTCT	CTTTTCTCCT	180
CCATGGCTGT	CTGCCTGCGT	ATCTGTCTCT	GAGAATCCTC	GGGGCGGTCA	GGGGATGTCA	240
GGAGGGGAAG	GAGCCGCCCT	CCCTATCTTG	CTGCTCCTCT	TGGCACTCAG	GGGCACCTTC	300
CATGGAGCCA	GACCGGGTGG	AGGGGCTTCT	GGGATTTGGT	GTCTGCTGCT	GCCAGAGCAG	360

> GAACCCCCAG TACTCGAG 378

- (2) INFORMATION FOR SEQ ID NO:332:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 394 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:332:

GAATTCGGCC	TTCATGGCCT	ACATTGGGAT	TATTGGTGCT	GTGACCATGG	CTGGCATCAT	60
GGCGGCAGAC	AGAAGTGAAT	CACCTAGTTT	GACCCAAGAG	AGAGCCAACC	TGAGCGATGA	120
GCAGTGCACA	CAGGTGACCT	CCTTGTTGCA	${\tt GTTGGTTCAT}$	TCCTGCAGTG	AGCAGTCTCC	180
TCAGGCCTCT	GCACTTTACT	ATGATGAATT	TGCCAACCTG	ATCCAACATG	AAAAGCTGGA	240
TCCAAAAGCC	CTGGAATGGG	TTGGGCATAC	CATCTGTAAT	GATTTCCAGG	ATGCCTTCGT	300
AGTGGACTCC	TGTGTTGTTC	CGGAAGGTGA	CTTTCCATTT	CCTGTGAAAG	CACTGTACGG	360
ACTGGAAGAA	TACGACACTC	AGGATGGACT	CGAG			394

- (2) INFORMATION FOR SEQ ID NO:333:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 547 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:333:

GAATTCGGCC	AAAGAGGCCT	ACTTATTTTC	CTGTGAAAAT	GCCTACCACA	AAGAAGACAT	60
TGATGTTCTT	ATCAAGCTTT	TTCACCAGCC	TTGGGTCCTT	CATTGTAATT	TGCTCTATTC	120
TTGGGACACA	AGCATGGATC	ACCAGTACAA	TTGCTGTTAG	AGACTCTGCT	TCAAATGGGA	180
GCATTTTCAT	CACTTACGGA	CTTTTTCGTG	GGGAGAGTAG	TGAAGAATTG	AGTCACGGAC	240
TTGCAGAACC	AAAGAAAAAG	TTTGCAGTTT	TAGAGATACT	GAATAATTCT	TCCCAAAAAA	300
ACTCTGCATT	CGGTGACTAT	CCTGTTCCTG	GTCCTGAGTT	TGATCACGTC	GCTGCTGAGC	360
TCTGGGTTTA	CCTTCTACAA	CAGCATCAGC	AACCCTTACC	AGACATTCCT	GGGGCCGACG	420
GGGGTGTACA	CCTGGAACGG	GCTCGGTGCA	TCCTTCGTTT	TTGTGACCAT	GATACTGTTT	480
GTGGCGAACA	CGCAGTCCAA	CCAACTCTCC	GAAGAGTTGT	TCCAAATGCT	TTACCCGACT	540
CCTCGAG						547

- (2) INFORMATION FOR SEQ ID NO:334:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 397 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:334:

GAATTCGGCC	TTCATGGCCT	AGGGGAAATT	GAGTCAAGAA	AAGGTTCAAT	ATTTTTTAAT	60
GGTAGAATTG	ACCGTATGTG	TATGTGCTTC	TAGAAGTGAT	TCAGGAGAGA	GGGTGGAATG	120

GATGGTGTGG	GACGGAGGGA	AGAATTGGTG	GAATGATGTT	GGCAAAAAGG	AATAGGCTTT	180
TGTGCATAAG	TTGAGGGATT	GGCCTTGCCT	AGAAACATGG	ACAATTCGTC	TATAGTAAGA	240
AGAGAAAAGG	TAGATCTATG	ACCACAGACA	TAGTCAGATA	ATCATTTTAA	AATTCTTTAA	300
TCAATAGATG	TTTCTGATGT	ATGGCAGGCA	GTAAGCTAAG	CAGTTTACAT	ACCTGATTTC	360
ATTTAGTTAT	TATAACAATC	CCAGTCTAAA	ACTCGAG			397

- (2) INFORMATION FOR SEQ ID NO:335:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 313 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:335:

GAATTCGGCC	TTCATGGCCT	ACTCCATCCT	TAAGGTCACC	ATTGGTATGT	TCCTGCTCTC	60
TGGAGATCCC	TGCTTCAAGA	CGCCACCATC	GACTGCCAAG	TCCATCTCCA	TCCCAGGCCA	120
GGATTCCTCC	CTGCAGCTGA	CGTGTAAGGG	TGGTGGGACC	AGCAGTGGGG	GCAGCAGCAC	180
CAACTCCCTG	ACTGGGTCCC	GGCCCCCAA	GGCTCGGCCC	ACTATTCTCA	GCTCAGGGCT	240
GCCAGAGGAA	CCCGACCAGA	ACCTGTCCAG	CCCTGAGGAG	GTGTTCCACT	CTGGCCACTC	300
CTCGCAACTC	GAG					313

- (2) INFORMATION FOR SEQ ID NO:336:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 467 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:336:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGGCCTCC	CAAAGTGCTG	~ 60
GGATTACAGG	CTTGAGCCAC	CACACCTGGC	CTAGTGATTT	GTAATTTCAT	GAGCTGTTGC	120
TGTATTGCCT	TCCACAGACA	GTCAATTTAT	AATCCCTCAG	TATTATATAA	TCAGGAAGAT	180
TCAGTGAATG	GAATTTTGGG	TTGGTGGAGG	ACATATTTTT	TAATTGGTAG	ACCACTGAGT	240
GCTTTTGCAA	ATCTCCTTAA	ATCACATTAC	AGCAGGAACA	ACTATAGAAA	ATACAATTAT	300
TTAGGAGCAA	CCTGATCTGT	GAGCTAATTT	AATGAGTGGA	GCCCAGCCTA	CATGCTGAAG	360
AGCTCACATG	CCTCCTACCT	AGTTCCTTAA	CTAGGTTTTC	ACTCATGCCC	ATTTTGTCAT	420
ACTCTTGAAA	CCTTCCTATC	TTTGCATAGA	ACATTATTCT	TTCCACT		467

- (2) INFORMATION FOR SEQ ID NO:337:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 348 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:337:

WO 98/45437

	P	CT/US98/06956	
GCTCTAGCCT CCCTGACGTT CCTGCTGTGT CTCCCCGTGT CTCTGTGCCA GCGATGTGAG CAAATGCCTC ATTCAGGAGC GAAGGGAACT GCCCCTGCTG TAAGGAGTGC ATGCTGTGCC TGCTGCGACT GTGTCGGTAT GTGCAACCCT CGGAATTACA AAGAGCACCG TGGAGGAGCT GCACGAGCCC ATTCCGTCCG	TCTGCCAGTG TCGGGGCCCT GCGACACCCC	CCGGCCTGGA GTGGGACGAG	120 180 240 300 348
(2) INFORMATION FOR SEQ ID NO:338:			
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 259 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	338:		
GAATTCGGCC TTCATGGCCT AGCCAGTCTT CAGTTATAAC CTCTCTCTCT CTCTCTTTT TTTTTTTTT TTTTTTGCTA ATGTAAAAAC TGTCACTAGT CAGCTGGCTC TTTTTCCTAT TCCATCCGTT GTTCTCAATA ATGACCACAG AGCCTGAGTA GCATTACAGG TCACTCGAG	TGGGATTTAA GAAATCTATC	TGGGAAAAAT AGTACCTTTC	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:339:		•	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 183 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	,		
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	339:		
GAATTCGGCC AAAGAGGCCT AGCCTTCTGC AAGATGCTTC CTGCTGGCCT TCAGCTCAGC TCAGGACTTA GATGAAGATG TTGGTAATAT CAGATGGAGG AGACTCTGAG CAGTTCATAG CCT	TCAGCCAAGA	AGACGTTCCC	60 120 180 183
(2) INFORMATION FOR SEQ ID NO:340:			
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 264 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	340:		
GAATTCGGCC TTCATGGCCT AGTTTTAACT GAGTGCAACA TTTTTTCGTA ATTTACCATT CTGCTGAATC AATTTTTAAT			60 120
TCTAACATAA TTCAGAAGCA TTAAAAAAGA AGACTAAGGA			180

240

264

TTCAGCTTGT ATTGCATTGT GCAGAAAGGA AAATAGTCTA GCTAATTTAC TTTTCCTATG

AAAAACCTTA GAAGGCTCCT CGAG

- (2) INFORMATION FOR SEQ ID NO:341:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 412 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:341:

GAATTCGGCC	TTCATGGCCT	AGCCTTTCTA	GTCTTCCCTC	TTCTGTAGGA	ATANCATGTT	60
CCTCAAATGG	TCCTGAACTT	TTTCACCATT	TTGGTGAACC	CTTTTAAAGT	AAATTTACTC	120
AATGCTTTAA	AATTCATAGT	CTTAAAATAA	ATGTGAATTT	TGTTTCCAGG	TATTTATTCT	180
GGGGTACAAA	AACTTCCCAG	AATTTACAGT	AGGAAAGGAA	ACCCCTTTAT	GATGTGGCTT	240
ATTATTACAA	GCATTCAGAA	ATGATGCTGG	CTAAGTCAAA	TCATTCCTTG	AGACAGTGAT	300
TCCTAAATGT	AATGCCGCCT	TCCTGAACTC	TCACATATTC	TATATCATGG	TTATTTTAAA	360
AAATATATTT	TTAGCCTTTT	GTAACCTTAG	TCTTGTTTTG	AGCAATCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:342:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 466 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:342:

GAATTCGGCC	TTCATGGCCT	AGGGATTATA	GGTGTGAGCC	ACCGCGCCCG	GCCAGGAATC	60
ATTTTTATCC	AGGTAAGGCA	TACAGAACCG	GAGGGTTCTT	${\tt GTCTAAGTTG}$	TACCATGAAT	120
GTGTGCTCAG	TGGCTACTTT	GAAATAGACT	TACTGTACAA	TCCCTGAGCA	GGAATGAAAA	180
TAAAAGCTGG	AAATCACGGG	TTGCTCTGGG	GTTTTCAGGA	AGGTGTCGTC	CGTCTGGGGT	240
GAGTGTCCTC	CTTTCTCANG	GGATTTCATG	TGGCATTATT	TTGTTTTCAT	CTGAGAGGCA	300
ACATAAGCTG	GGAGGGAAGG	GCTGCAAAGA	GGGGGCCAGG	ACAAATGTGT	ACCTGGGGGC	360
CCCCATTTTG	ACTCCACCCT	GAGCTGGGGC	TGGGCCACAG	GAGGGCAGAG	GGAACACTTT	420
GGGACGGGGA	GGGAGCCCCT	GGACTGAAAG	AATGGGGTGA	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:343:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 328 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:343:

GAATTCGGCC	TTCATGGCCT	AGAATTTTGG	AGTCTTTATC	ATAGGTAACC	TGGACCACAG	60
TTACTATTTA	TTGACAATGT	GATTGAGTGT	ATGGAGGAAA	GCACAGTGGA	TGCTAGGCTT	120
TGTAAATATG	GGGATGTAGA	AAAGCAGATA	GTTCAGTGTC	TACCTTTTTC	TAGAACTACC	180
TTGAACCTTA	AATTTTAAGT	CATGTTCATT	GCTAGAAAAT	TAAATGTACT	TATTAAAACC	240
AATGAAAAAG	CACATTTCTG	AAATGAAGTT	AGAGATAATC	TCTGTGTCTT	ATAAAAAGAC	300
AAAATAATTA	ATCTGGTAAG	GACTCGAG				328

## (2) INFORMATION FOR SEQ ID NO:344:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 416 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:344:

GAATTCGGCC	TTCATGGCCT	AGTGACCAGA	CATAAGAACT	CATTTTTAGT	TAAAGCATTT	60
TAAAAAAGTA	TACAAGGCAG	AGTTGCAAAC	AATCTCAGCC	TATGAAAAGG	ACAGCTGCAG	120
TCAATGTTCC	CACTAATATT	TTCCATCCGT	GTACTGAGTG	AATTTGTAAT	GTGCAACTCA	180
TGTCAAGAAA	ATAAACAGAT	GTGCÁCCACA	AGCGGAACAA	CAATGAAAGA	ACTTACATAG	240
ATTTTTATTA	AGATTGAACT	TTTGATGTTG	ATTCCACTGG	TAAGAGAGCA	CTGTAGGCAA	300
AGGTCTTGTA	TTTATAAAGT	TATCTCCTAT	TGAGGAAGAT	GAAGATGTCA	ATACTCCCCA	360
ACAGAATGCT	TTGAGCTCTT	TCTAGTAGAT	CTGTGCCAAC	TCTGAAACAC	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:345:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 344 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:345:

GAATTCGGCC	TTCATGGCCT	AGTAAATACA	AAATACAAAA	ATACTGGTGA	GAGAATGGGA	60
TGATGATTAT	ATTCCTGGTT	CAGTTTTTCT	TCCTGAGAAA	TTTGATAATA	CATCTTTTGA	120
TTTTTAATAA	GTGAAATAAC	TGGTGACTGT	GTTGTATGTG	TGTGTGTGTG	TTTTTTTTT	180
TTTTTTTAAA	TAGAAGTGTG	AAAAGAAACT	TCATCCACGG	AAACTTCAGG	ATAATTTTGA	240
AACAGGCAAG	TCATTTCCTA	TCTTTTTATA	ATCTCTGCCT	TGTGGGATTT	GGTTTGGTTT	300
ACCTAACTTT	GATTTTAGTG	GGAGTATGTG	AGCTGTGACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:346:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 544 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:346:

GAATTCGGCC	TTCATGGCCT	AGCCTTCGGA	ACCCCACCAG	AGTCACAGCC	AGGAAGGGCA	60
GCGGGGCGCA	CCAGGCCGAA	GGCTCACGCC	ACAGGGAGGG	CAGCTAGGAC	ATGGGGGGAA	120
GCGCGTTAAA	CCAGGGAGTC	CTGGAAGGGG	ACGACGCCCC	CGGCCAGTCC	CTGTACGAGC	180
GGTTAAGTCA	GAGGATGCTG	GACATCTCGG	GGGACCGGGG	CGTGCTGAAG	GACGTCATCC	240
GAGAAGGAGC	TGGAGACCTA	GTGGCGCCTG	ATGCTTCGGT	GCTAGATGCT	TCGTCTTGGG	300
TARACTCCTC	GACTCCCAAG	GCCCCAGCTC	CATCTTTACC	TCAGAGCCTC	CTGAACCTCC	360
TCCTCCAGCC	TCACCTTCCT	CCAGCCTCAC	CACTCCTCCC	TGGACCTGCA	GCTCCGCACC	420
CCCGGGGGCC	TCAGAACTAC	CCCTTCCAGG	GCCTCAGAAC	TACCCCTACG	GTTTCTCCTG	480

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CGTAACCTTC CGAG	TGCCTACCTT CCTGAGAGTG GTTGGTGACA GCAGCCGGGG CTAGAAACCT	540 544
(2) INFORMA	ATION FOR SEQ ID NO:347:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 570 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:347:	
	CCTACCCAGT GATTGTCACC ATGGCCAGCA AGAGGAAATC CACCACACCA	60
	CAGTGAAGAC TGTGGTGTTG CAAGATGCCA GCATGGAGGC CCAGCCCGCT	120
	CTGAAGGACC CCAGCAGGAT CTGCCCCCAG AAGCATCTGC TGCCAGCAGT	180
	AGAACCCCAG CAGTACTGAT GGCTCTACAC TGGCCAATGG GCATCGGAGC	240
	GCTATTTATA TTCCTGTAAA TACTGCGATT TCAGATCCCA TGACATGACC	300
	GACATATGAA CTCAGAGCAC ACAGACTTTA ATAAAGACCC AACCTTTGTA	360
	GCAGTTTTCT GGCAAAAACC CCTGAGGGGC TTTCCTTGCA CAATGCCACA	420
	GGGAAGCCAG CTTTGTGTG AACGTGGCCA AGCCAGACAA TCATGTGGTT GCATCCCTGA GAGCACCAGC ACTCCTGACC TAGCGGGTGA GCCCAGTGCT	480
	ATGGACAGGC AGAGCTCGAG	540 570
(2) INFORMA	ATION FOR SEQ ID NO:348:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:348:	
ACTATTTTCT CTGTCCTAAT CAACAGGGTA	TTCATGGCCT AGAAAAAGT TTTCAAAGGG AAGTAATCTT AAATCTGTAT ATGATGGAAA TTCTGTGAAG AAACAATAAC AAATTCTCCC TGACTCCTGT AGTAAGGTGG TCTTTCTTCT AATCTCCCCA TCCATCCACC CATCAGGAAG CCTTGTGTGA GTAACTGTAG ATTTCTGACT TCTTCTCGCA CCTTCAGCTG TGTAAGATGT GCTGCCGGAG GTTCTCCTGG GCAATCCCCA TTCGCTCGAG	60 120 180 240 300
(2) INFORM	ATION FOR SEQ ID NO:349:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 424 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:349:	
ATAGCCGGCC	TTCATGGCCT AACAACCACC ACCACCTGGA CGCCCAGCAG CACAACCACC TCAGGGTCAC AGAAGCAAA GGGCACTCAG AATCATGGCA CCTAAGTCTG TCAGGGTTGC ATTGGCTGTC GCTGTGCTCA AAACTGTCAT TTTGGGACTG	60 120 180

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	PCT/US98/06956	
TGACCAACAG CCGCTTGTGA	TCCTGTGGTG GAGGAGAGG AAAGGTAGCA GGGCGCCAAG CAGTGACTTC AGTGTGGGGA GAAGGATGT GTATTAGCCC CGGAGGACGT GATGTGAGAC GTCCTCCACA CTCGTTCCCC ATTGGCAAGA TACATGGAGA GCACCCTGAG AGGCAAAGCC GCAAGGCAGA AGGAGGCTGG GTCCCTGAAT CACCGACGCT	240 300 360 420 424
(2) INFORM	ATION FOR SEQ ID NO:350:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 445 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:350:	
CCCCGGGACA GCTTTGCAGA CAGATATCTG GGGGTGTAAA TGTAGACAAC GAGTTATTTC	TTCATGGCCT AATTAGATTA TTTTGAGCTT GGGAACACTT GTACATGGTT TAAATGTAGA AGTTCTGTAG AGCAGTATCT TCACATTGAG GGATGTAAG GTATAGATAG TTTAATGTAA TTTAGAGTTC TTCATTATCT TTCCTAGGAT CCGATGATGA CTTCTAACCC ATTCAGAATC TTTCTATGGT ATATTGCCCT ATCCTCCAGG ACCCTAAACA GATGGACAGT TGATGCATTT CAGGGTAAGC AATATATTTG ACCCCTGAAA CAATTCAGTA TGCTTGTCAT TTGTTAACTA AAACATAATT TTGAATAAAA AATAAATTTT AATAAATACA TGTTCCCAAT AAAGCAATCC TCGAG	60 120 180 240 300 360 420 445
(2) INFORM	ATION FOR SEQ ID NO:351:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:351:	
AATAGCTGTT AGAAGCAAAA AAAATTCACT	ATGGCCTAAT TTTGGAACTA AGAGACAGAT TTTTTGTTTT TGTTTTTTA AACTAGTCTC ATAAGGACAA AATACAGAAA GACAGTTCTT ACAGAGAAAT AAAGGAACCA ATGGAAAATT TAAAACTGAA AAATAGAATA TCTGAAATAA AGATGACATA ACTGTTGAGG AAAGAGTATG TGAATTTGAA GAAAGAGCAA CCATTGTAAA GAACAAAGAG AACTCGAG	60 120 180 240 278
(2) INFORM	ATION FOR SEQ ID NO:352:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 457 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:352:	

60

120

GAATTCGCCT TCATGGCCTA CAGATTATCT TACACTGAAC TGATCAAGTA CTTTGAAAAT

GACTTCGAAA TTTATCTTGG TGTCCTTCAT ACTTGCTGCA CTGAGTCTTT CAACCACCTT

${\tt TTCTCTCCAA}$	CCAGACCAGC	AAAAGGTTCT	ACTAGTTTCT	TTTGATGGAT	TCCGTTGGGA	180
TTACTTATAT	AAAGTTCCAA	CGCCCCATTT	TCATTATATT	ATGAAATATG	GTGTTCACGT	240
GAAGCAAGTT	ACTAATGTTT	TTATTACAAA	AACCTACCCT	AACCATTATA	CTTTGGTAAC	300
TGGCCTCTTT	GCAGAGAATC	ATGGGATTGT	TGCAAATGAT	ATGTTTGATC	CTATTCGGAA	360
CAAATCTTTC	TCCTTGGATC	ACATGAATAT	TTATGATTCC	AAGTTTTGGG	AAGAAGCGAC	420
ACCAATATGG	ATCACAAACC	AGATGGCAGG	ACTCGAG			457

- (2) INFORMATION FOR SEQ ID NO:353:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 295 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:353:

GAATTCGGCC	TTATGGCCTA	GCAGGCGCCA	AGGTAACATG	AACAAACAGC	TGCTTGCTGC	60
CCCCAAGCTT	TAGTTTCTAG	TGGGCCTGGA	GCAATTGTGA	AGGACAACTC	CACCCAAGGC	120
CCAGTATTGA	AGAGGGGTAG	GGTGGGAGGA	TTGTACATAT	CGCGAACGCT	TGGCAAATCT	180
CTAGATTTTT	TTTCCTCCTA	GGAAATAATA	AAAATTTTTAA	AGGCTTGTAA	AAAATAATAA	240
AATGTTTCAT	GACAGCAGCA	GATGTAAAAC	TCCCAGTACT	CCGGGCGACC	TCGAG	295

- (2) INFORMATION FOR SEQ ID NO:354:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 414 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:354:

GCCTAGACAT	GATGGTGGCC	ACGTGCCAGG	GGACCACACC	CTATGTACAA	AGCAGGAGAA	60
TGATGCTCCC	AGCTGAGCTG	CAGGATGGGC	${\tt GCTGGGCTGA}$	CTGGAGGGGT	AGACGGGGTG	120
GGGTCTGACC	CCATTAGCCT	TTCCCCATCC	AACCTGGGCC	CCCATAAGCC	ATTCTCTGGC	180
CCTCTGCACA	AGACAGACTC	AGCAAATCTG	CGAGGTATGG	GGATTCTGCC	AACTCCCCAC	240
CTCGCCTCAC	CTTCCCTAGG	TCTGCGCGTT	AGGAGATTCT	GGAGCCAGAG	GGAGAGACCC	300
CAGAAACTCC	CCGGTCGGCG	ACCCAGCCCG	AGACGCCTGG	GGTCCCAAGG	GAAGCTGAAC	360
GCCCGCAGAA	TGGGGAAATG	GAGAGAGAAC	CTGAAAGAGC	CCCTGTAACT	CGAG	414

- (2) INFORMATION FOR SEQ ID NO:355:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 443 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:355:

GAATTCGGCC	ATCATGGCCT	ACTCCCGAGT	AGCTGGGACT	ACAGGCATGT	GCCACCACGC	60
CCAGCTAATT	արդուրագոր Հորաբարարուրա անագրագրանության անագրարարության արդարարարան անագրարարան անագրարարան անագրարան անագրա	ተተተተተ የተ የ	AGATGGGGGTT	CCACCATCTT	ACCUPACCA TC	120

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ATTTCGATTT	CCTGACCTTG	TGATCCGCCC	GCCTCGGCCT	CCCAAAATGC	TGGGATTATA	180
GGTGTGAGCC	ACCACGTGGC	CTCATTTCAT	TCTTTCATGT	GGATAGGCAG	TTGTTCCAGA	240
AGTATATAGT	GAGGAGCTTC	TTCTTTCTCT	AATGATCTGC	AATGTCACCT	TCATCATTTA	300
TGAAGGTTGC	ACATATACAT	GGGAATTTTT	TAGTCTGGCA	TTAAATGTTC	TTCAAAAGAG	360
TTCCTGCAAA	CGTTTTTGTT	TTTATTTCCT	ACTGTTCCCT	TCACGTACTC	TCTACTGAAC	420
TAAACTCTCT	AATGTGTCTC	GAG			•	443

- (2) INFORMATION FOR SEQ ID NO:356:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:356:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCTC	AAGAGCAGCC	CACCTGTTCA	GTATTCATAC	60
CCACATATCC	ATAATAGAGC	TCTTCTCTTC	CCCCGGGTTC	CTCTGCCTCA	GCCTTTTCCT	120
CTTAGCAGAT	GCCATCTGCA	GGGCCACTTG	GCTGCCCGTA	GCAGTAACCG	CACAGTCTTC	180
CACATTTACT	CCCTCAGCCT	CAGCTGCTCC	TGCAGCCCAG	GCACTGTCTC	TGTCTCTGCA	240
TTGCTCAAGC	CTCCACCATC	TCGGTTACAC	CCCACAGCCA	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:357:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 269 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:357:

GAATTCGGCC	TTCATGGCCT	ACTGCCTTAG	CCTCCCAAAG	TGCTGGGATT	ACAGGCGTGA	60
GCCACCATGC	CCAGCCCTAT	AGTAGTTCTT	CTTTTGCCCC	TTAATATCCT	CACCCACATG	120
TCCTGTACCC	TGCCTGAACC	CTCCTCCTCT	TTTTGTTCTG	ATCTTTGAGC	TCCCTAGAGC	180
CCATAATTCT	TTAGAGCAGG	TATGTCCCGA	GTCTGAAACA	TGCCCTTATT	TGTCCCAAGC	240
TCTGGACATT	TCTCACCCCA	TCTCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:358:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:358:

GAATTCGGCC	TTCATGGCCT	ACCAAGGAAG	CCTTTCTGTT	TTTGGCCCAA	GGAGCGTCAA	60
TAAGATCTTT	GAAAATACTT	TGAAGTCATT	TTGTGTGTGT	GTATGTGCAT	ACACACCTGA	120
TTTGTTTTAT	TTTTTATTTT	TATTTTTTGA	GTTAGGGTCT	GGCTCTGTCG	TCCAGGCTAG	180
AGTGCAGTGG	TGTGGTCTCA	GCTCACTGCA	ACCTCTGCCT	CCCAGGCTCA	AGCCGCCCCC	240

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	CCACCTCGAG		250
	(2) INFORMATION FOR SEQ ID NO:359:		
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 258 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	359:	
	GAATTCGGCC TTCATGGCCT AATGGGAGAT TGGTGGGAGT GAAAAGAAGA TAGGTTGTAT TTTGGTCATA CTGACACCAA GTGAAAAAAAG CTAGCAGGACA GTTGAACTGC GGCTGTGAAA ACTCATCGTT GTAGTCATTC GTAAAGAGTA AATACTTGGA CACCACGGAA CACTCGAG	CATGCCTAAA GGATAGCCCT CAGGAAGCCG TGAGGGCTAG	60 120 180 240 258
	(2) INFORMATION FOR SEQ ID NO:360:		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 259 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3	360:	
	GAATTCGGCC TTCATGGCCT AGGAAGCCAC AGGTCGGCTC CCCTCGCTGG CCGGGGGCTC CTGGGGTTTG TCCAGCTTGA CTTTTCTCCT GGACATTCTC CATTCCGGGT AGAGCCGACG TTCACGTTGT AGCCAGTCTT CGCACTGGTC TCAATGAACA CCCTTGCCCC CCCCTCGAG	TGTCGATCAT CCCTTCTTTG CCACACGTCG AAAAAGCTGC	60 120 180 240 259
	(2) INFORMATION FOR SEQ ID NO:361:		
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 422 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>		
	(ii) MOLECULE TYPE: cDNA	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	361:	
	GAATTCGGCC TTCATGGCCT AAAGATTAGC CTGGGTAACA TAAAAAAATAA TAATAAAAAAT AACATTCACA TTGGTATTGT AAGGCATTCA TTAAGGTATT GTTAAAACTT GTGTTAAGCA TGGGATAGAA ATAAAATGTG ATAAAAAGCT GAAAGAAACC .	TCACTAAGGT ATTGGTTGTT TGTTAAAGTC TCAGTAACTT	60 120 180 240

TTGAAATATT AGAGACATAA TGCTGTCTAA TAAAAAACGA CATCAAAGAA AAACTACACT

ACAGTGACTG CAGACTTAAT GTTGGCCAAC CATGCATCCT CCCTAGAAAT GCATTTGAAT

TTGATTTACT AATCTTTTAT TTAGGAAATT TACATTTTTA CATTAGTGAG ATTGGCCTCG

(2)	INFORMATION	FOR	SEO	ID	NO.362.
<b>, ⊷</b> ,	**** 010 #11 1011		25		

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:362:

GAATTCGGCC	TTCATGGCCT	AGTTATTCTT	CTAATAGCTC	AGCTACTTTT	CCTTAAAATA	60
TCTTTTTCTC	TGCAAAGCCT	TCATATAATT	${\tt GTTGTTATTA}$	TAACAGTGAT	GATGACTGCC	120
ACTCATTACA	ACTGCTGTTG	TTAATCTTTG	TTGTTATTTT	AAACCATATG	TTATTTAAAC	180
CATAAACTGC	ATCATAAAAG	CAGTTTCTTT	CTAATCCATG	ATGACACCTG	CTAGCCAGGT	240
ATCGTATCAA	TTCTTCACAG	GTCTATTGAA	TTCTAGACCT	GCCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:363:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 264 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:363:

AAAAATTTÇA	ACAAATCCTG	AAGTCTTTCT	GTGAAGTGAC	CAGTTCTGAA	CTTTGAAGAT	60
AAATAATTGC	TGTAAATTCC	TTTTGATTTT	CTTTTTCCAG	GTTCATGGTC	CTTGGTAATT	120
TCATTCATGG	AAAAAAATCT	TATTATAATA	ACAACAAAGA	TTTGTATATT	TTTGACTTTA	180
TATTTCCTGA	GCTCTCCTGA	CTTTGTGAAA	AAGGGTGATG	AAAATGCATT	CCGAATCTGT	240
GAGGGCCCAA	AACAGAGACT	CGAG				264

- (2) INFORMATION FOR SEQ ID NO:364:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 260 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:364:

GAATTCGGCC	TTCATGGCCT	AGACCCTCAT	CAATAGATGG	AGACATACAG	AAATAGTCAA	60
ACCACATCTA	CAAAATGCCA	GTATCAGGCG	GCGGCTTCGA	AGCCAAAGTG	ATGTTTGGAT	120
GTAAAGTGAA	ATATTAGTTG	GCGGATGAAG	CAGATAGTGA	GGAAAGTTGA	GCCAATAATG	180
ACGTGAAGTC	CGTGGAAGCC	TGTGGCTACA	AAAAATGTTG	AGCCGTAGAT	GCCGTCGGAA	240
ATGGTGAAGG	GAGACTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:365:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 332 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:365:

GCGCCTATCA	CAAGCAGATC	ATGGGTGGCT	TCAAGGAGAC	GAAGGAGGCT	GAAGATGGCT	60
TCCGCAAGGC	CCAGAAGCCT	TGGGCCAAGA	AGATGAAGGA	GCTGGAGGCA	GCCAAGAAGG	120
CCTACCATTT	GGCTTGCAAA	GAGGAAAAGC	TGGCCATGAC	ACGGGAGATG	AACAGCAAGA	180
CGGAGCAATC	GGTCACACCT	GAGCAGCAAA	AGAAGCTGCA	GGACAAAGTG	GACAAGTGCA	240
AGCAGGATGT	GCAGAAGACA	CAGGAGAAGT	ATGAGAAAGT	GCTGGAAGAT	GTGGGCAAGA	300
CCACACCCCA	GTACATGGAG	AACAAACTCG	AG			332

- (2) INFORMATION FOR SEQ ID NO:366:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 330 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:366:

GAATTAACAG	AGTTTTCAGA	ATTAGAATAC	TCAGAAATGG	GATCATCGTT	CAGTGTCTCT	60
CCAAAAGCAG	AATCTGCCGT	AATAGTAGCA	AATCCTAGGG	AAGAAATAAT	CGTGAAAAAT	120
AAAGATGAAG	AAGAGAAGTT	AGTTAGTAAT	AACATCCTTC	ATAATCAACA	AGAGTTACCT	180
ACAGCTCTTA	CTAAATTGGT	TAAAGAGGTT	GAAGTTGTGT	CTTCAGAAAA	AGCAAAAGAC	240
AGTTTTAATG	AAAAGAGAGT	TGCAGTGGAA	GCTCCTATGA	GGGAGGAATA	TGCAGACTTC	300
AAACCATTTG	AGCGAGTATG	GGATCTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:367:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 200 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:367:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTAC	GGAGCGAAAC	TCTGTCTCAA	AAAAAAAAA	60
AAAAAAAA	ACCGAGTATA	AAAGGCATTT	TTTTCCTTTA	AACTAAGTAA	AATATAATGT	120
TGAATAGTTC	TATTTTGCTT	AACGGGCTTT	TGTTATTTGT	TTTGTGTAGA	AATTGGCATT	180
TTTCACATAG	AAATCTCGAG					200

- (2) INFORMATION FOR SEQ ID NO:368:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 368 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:368:

GAATTCGGCC	TTCATGGCCT	AGAGAAATGA	GGAAAAAGAA	GGAAGAATAT	TTAACTTTTA	60
GTCCTCTTAC	AGTTGTAATA	TTTGTGGTCA	TCTGCTGTGT	TATGATGGTC	TTACTTTATT	120
TCTTCTACAA	ATGGTTGGTT	TATGTTATGA	TAGCAATTTT	CTGCATAGCA	TCAGCAATGA	180
${\tt GTCTGTACAA}$	CTGTCTTGCT	${\tt GCACTAATTC}$	ATAAGATACC	ATATGGACAA	TGCACGATTG	240
CATGTCGTGG	CAAAAACATG	GAAGTGAGAC	TTATTTTTCT	CTCTGGACTG	TGCATAGCAG	300
TAGCTGTTGT	TTGGGCTGTG	TTTCGAAATG	AAGACAGGTG	GGCTTGGATT	TTACAGGATA	360
TTCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:369:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 299 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:369:

GAATTCGGCC	TTCATGGCCT	ACATTCGGAG	AAGTTGAAAG	AATTACACCC	AGAACACCCA	60
TGTCTACCAT	GTTACTACAT	TTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GCGTGTGCAA	120
TTTTAATTAC	AATGGTCGAG	GAAGCTCTTG	CTGAGAAGGT	GATGTTGAAT	AAAGACTCTA	180
AAGACCCTAA	AGAGTTGAGA	GAGAGCTGTG	TGGAGTTCTG	GGGCCCAGGC	ACAGCAAGTA	240
CAAAGATCCT	GAAGCAGGAG	CATTCTTGGT	GTGTTCAAGG	AAAGCAGGAC	AACCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:370:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 289 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:370:

60	TTTTCTTTTG	CTGTGGTGGC	CATTATGCAA	ACCGCCTTTC	TTCATGGCCT	GAATTCGGCC
120	CCCCCTGGGC	CAACCATGGG	TCTTTGCACT	AACCCCACTA	ATTATTTGTC	TTATACGACG
180	GGGTGGATGG	GCAAATGTGT	CACCACATCT	ATCTTCTCAT	CGTGACAGTC	TCAGAGACCT
240	CAGACAAATC	TTTTCCTCCC	AGTCCCTGAT	TCCAAGAAGC	GTCCACCTCC	GGCAGCAACA
289		TCCCTCGAG	ACTAAGCACC	AACTCAAAGA	тсттсттсса	ተጥርተተ

- (2) INFORMATION FOR SEQ ID NO:371:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 540 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:371:

AATTCGGCCT	TCATGGCCTA	CAAGCTCGAT	CATTATCCTT	CTGTGAGTTA	CCATCTGCCA	60
AGTTCATCCG	ACACCCTCTT	CAATTCTCCC	AAGTCGCTCT	TTCTGGGAAA	AGTTATAGAA	120
ACAGGGAAAA	TTGACCAAGA	GATTCACAAA	TACAACACCC	CAGGATTCAC	TGGTTGCCTC	180
TCCAGAGTCC	AGTTCAACCA	GATCGCCCCT	CTCAAGGCCG	CCTTGAGGCA	GACAAACGCC	240
TCGGCTCACG	TCCACATCCA	GGGCGAGCTG	GTGGAGTCCA	ACTGCGGGGC	CTCGCCGCTG	300
ACCCTCTCCC	CCATGTCGTC	CGCCACCGAC	CCCTGGCACC	TGGATCACCT	GGATTCAGCC	360
AGTGCGGATT	TTCCATATAA	TCCAGGACAA	GGCCAAGCTA	${\tt TAAGAAATGG}$	AGTCAACAGA	420
AACTCGGCTA	TCATTGGAGG	CGTCATTGCT	GTGGTGATTT	TCACCATCCT	GTGCACCCTG	480
GTCTTCCTGA	TCCGGTACAT	GTTCCGCCAC	AAGGGCACCT	ACCATACCAA	CGTTCTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:372:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 527 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:372:

TCGACCCCTG	GCTAATGACA	AACTATGTGA	CCTTCATGGT	GGGGGAGATT	CTGCTCCTCA	60
TCCTGACCAT	CTGCTCCCTG	GCTGCCATCT	TTCCCCGGGC	CTTTCCTAAG	AAGCTTGTGG	120
CCTTCTCAAC	TTGGATTGAC	CGGACCCGCT	GGGCCAGGAA	CACCTGGGCC	ATGCTCGCCA	180
TCTTCATCCT	GGTGATGGCA	AATGTCGTGG	ACATGCTCAG	CTGTCTCCAG	TACTACACGG	240
GACCCAGCAA	TGCAACGGCA	GGGATGGAAA	CGGAGGGCAG	CTGCCTGGAG	AACCCCAAGT	300
ATTACAACTA	TGTGGCCGTG	CTGTCCCTCA	TCGCCACCAT	CATGCTGGTG	CAGGTCAGCC	360
ACATGGTGAA	GCTCACGCTC	ATGCTGCTCG	TCGCAGGCGC	CGTGGCCACC	ATCAACCTCT	420
ATGCCTGGCG	TCCCGTCTTT	GATGAATACG	ACCACAAGCG	${\tt TTTTCGGGAG}$	CACGACTTAC	480
CTATGGTGGC	CTTAGAGCAG	ATGCAAGGAT	TCAACCCAGG	GCTCGAG		527

- (2) INFORMATION FOR SEQ ID NO:373:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 407 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:373:

GGCAAGAAAG	GATGTCCGCA	CAGCTGGCTG	CTGCTGAGAG	CAGACAAAAG	AAGCTGGAAA	60
TGGAGAAGCT	TCAGCTACAA	GCCCTTGAGC	AAGAGCACAA	GAAGCTGGCT	GCCCGCCTTG	120
AGGAAGAGCG	TGGCAAGAAC	AAGCAGGTGG	TCCTGATGCT	GGTCAAAGAG	TGCAAGCAGC	180
TCTCAGGCÁA	AGTCATAGAG	GAGGCCCAGA	AGCTCGAAGA	CGTAATGGCC	AAACTGGAAG	240
AGGAAAAGAA	AAAGACGAAT	GAATTAGAAG	AGGAACTCTC	CGCTGAGAAA	CGAAGAAGCA	300
CAGAAATGGA	AGCTCAGATG	GAAAAACAAC	TCTCTGAGTT	TGACACTGAG	CGGGAACAGC	360
TTCGTGCCAA	GCTGAACCGG	GAAGAAGCAC	ACACCACAAA	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:374:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 322 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:374:

G	AATTCGGCC	TTCATGGCCT	ACTCTGTTTT	CTCCCTGGAC	TTATGTGCTT	CGTCTGGAAT	60
G'	TTACATCTC	TTCCTCTCTT	TCTTTTTTT	TGGTCCCCAT	GTTGACTGTT	TTATTGGGGT	120
T	TCTGGATAT	CTCGGGGCCA	CCTCACAGGA	AGCGGTTTGC	AATGAGATCA	TAAACATTGC	180
C	SAAAAATCT	GTTCATTACT	GCAGCACTGT	TTCTCATCCC	CTTGACTTTC	ATCACAAGGT	240
A'	CCCCTTCT	GACAATAAAT	CATCTTTAAT	CATTTCTCAG	CAACCTCAAG	CCCAGCAGCG	300
A	AGAGTCACC	CCCTATCTCG	AG				322

- (2) INFORMATION FOR SEQ ID NO:375:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 480 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:375:

GAATTCGGCC	AAAGAGGCCT	ACCTAAACCG	TCGATTGAAT	TCTAGACCTG	CCCCAAAACC	60
AACAAGGAGA	ACAAGCTCAG	TCTTCTGTGT	CTTAATTTTT	GGCTTTACTC	TTAGCCCTGC	120
CCCATTTCCT	AGGCTCTCCA	CAGTCCAGCC	GCTTTGAGCT	ACTTTTCCTT	CCCTGATATG	180
TGCAGCTCTC	TCACCTCTGA	GCCTCCGCAC	CTGCTGTTCC	ACAGCACTCT	CCGCATTGCC	240
TTCTCCCACT	GTGGCTCACT	GCTGAGCTGT	GTTCAGGCCC	TTTGGGAAAC	CCTCTCTTTC	300
ACTCCTTTTC	CCTGGTCTGG	CTTGGGAGCC	CATGCTTACC	CCTGTCAGGA	CACCTTGAAA	360
CCCAGCAGTG	AAAACATGAC	ACTTCCTTGT	CTGGCTGATT	TTCTTAGTGA	AGCGAGTAGG	420
AGTTTCCTTT	GTCAGGACTT	CAGCAAGCAA	AATTCAGGAG	AGGTCATAAA	ATGTCTCGAG	480

- (2) INFORMATION FOR SEQ ID NO:376:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 283 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:376:

GAATTCTAGA	CCTGCCTCGA	GTAACCAGAG	AGTCTTGTCA	ACATTAACAC	TAGCAGTATT	60
TCCAACACTT	TATTTTTTTA	ACTTCCTTTA	TTATACAGAA	GCAGGATCTA	TGTTTTTTAC	120
TCTTTTTGCG	TATTTGATGT	GTCTTTATGG	AAATCATAAA	ACTTCAGCCT	TCCTTGGATT	180
TTGTGGCTTC	ATGTTTCGGC	AAACAAATAT	CATCTGGGCT	GTCTTCTGTG	CAGGAAATGT	240
CATTGCACAA	AAGTTAACGG	AGGCTTGGGA	AACTGAGCTC	GAG		283

- (2) INFORMATION FOR SEQ ID NO:377:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:377:

GAATTCGGCC	TTCATGGCCT	AAACAGCAAA	GAACAACTCA	TCACCGCTCA	CGTTCAGTAT	60
CTCCTCATCG	CGGCAATGAT	CAGGGAAAGC	CGCGTTCACG	TTTACCAAAT	GTGCCATTAC	120
AGAGGAGTTT	AGATGAAATT	CATCCAACAA	GAAGGTCACG	TTCTCCAACC	AGACACCATG	180
ATGCCTCCCG	AAGTCCAGTT	GATCATAGAA	CCAGAGATGT	GGATAGTCAG	TATTTATCAG	240
AACAAGACAG	TGAGCTTCTT	ATGCTGCCCA	GAGCAAAACG	AGGACGAAGT	GCAGAATGCC	300
TACATACTAC	CAGAATGTCT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:378:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 352 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:378:

GAATTCGGCC	TTCATGGCCT	ACTGAAATTT	CAATAAAACC	AGCTTGAAAG	TTCCATTACT	60
AGAAAGATAA	GAGTGGTCAG	AAAACATTTT	TTATTAACCT	ATTTCATCTA	GTAAGAGTAT	120
CTTAAATGTT	TTTTCTCTTG	AGTACTGAAT	ACACATGCAG	GACAATGGAC	CTAAATACAG	180
TTAACTTTTG	TTTTTCACTC	CTTTGCTTTT	GCATTGTCAA	TAGTCCGGTA	AGGTTTAGGT	240
TCTATCAGAA	${\tt GTACTCAGAC}$	${\tt ATGCAGTGGG}$	CAATCGATAA	${\tt TTTCTACCTG}$	GGCCCTGGAT	300
GCTTGGACAA	CTGCAGGGGC	CATGGAGATT	GCTTAAGGGA	ACAGTACTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:379:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 271 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:379:

GAATTCGGCC	TTCATGGCCT	AGTCTGTGTG	TAGTGGAAAC	TCTATTGCCT	GCCCTGCACA	60
TCTGCTCCTT	TTCTTCTCTG	CACTCTGGGA	CAGCTTCTAA	AGTTTGTCCA	ACATGTCATT	120
GACTGAGTTT	TGTATCATTT	CAGTTCTGCT	CTTTACTGGT	TCCTATGTGG	ATGCTAATTA	180
TGCAAATGCA	TTTTCCACCT	CTTGCACTCC	TTTTTCTAAG	TCACCTCACT	TCTCATTTCC	240
TCATGTTTTT	CCNTTATCCT	CTTCTCTCGA	G			271

- (2) INFORMATION FOR SEQ ID NO:380:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 371 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:380:

GAATTCGGCC	TTCATGGCCT	AACGCGGCCA	GGCGATTCGG	TGAAGCGATT	CCTGCAGGCG	60
TTGGTTCCCC	TCTTTGACCT	GGTACAAAGA	ATTTTACGTG	AAAGATTTTG	TCGTCAGAGT	120
CCACATAGTA	ACCTATTTGG	AGTGCAAGTA	CAATACAAAC	ACTTAAGTGA	GCTGCTGAAA	180
AGAACTGCTC	TCCATGGAGA	GAGTAACTCT	GTCCTTATTA	TCGGACCCCG	AGGATCAGGA	240
AAAACTATGT	TAATAAATCA	TGCTTTGAAA	GAACTCATGG	AAATAGAAGA	AGTGAGTGAA	300
AATGTATTAC	AAGTTCACTT	AAATGGACTG	CTGCAGATCA	ATGACAAAAT	CGCCCTAAAG	360
GAAGTCTCGA	G					371

- (2) INFORMATION FOR SEQ ID NO:381:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 277 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:381:

GCAGAGTTAA	GCAAATTAAT	TATAGCTATC	TTTAAGCTAT	AAATGTGTTA	ACATGTATAT	60
ATACCATTTA	TTATGTTCTA	CTTTAGTGAT	ATACCTTAAT	TTAGTGGGCT	TTGGCAGGGC	120
GGGGGAGGGG	GAACGTTCAT	TAATCTCTGA	GGAAAACAAA	ACCTGTTTTC	TACTTGAGTC	180
TAACATATGG	TCCCAATTTA	TTAATACTTC	TGTTAAATTT	GATGTCAGGT	CAACATTTTT	240
CAGAAATGTA	TTTATTCTCA	GAAACAGAAC	ACTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:382:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 290 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:382:

GAATTCGGCC	TTCATGGCCT	AGTTGTTACT	GGAGTTAAAG	AGAGAACTGA	GAAAGACAAA	60
GGAGTAGAAC	GTTTACTCAA	ATAAGTAATA	ACAGAAAACT	TTCCAAACCA	GAATATACAG	120
GTACAGGAAG	GTCAAGGGTC	ACCAATCCGA	GTTAACTCAG	ACAAGAATAC	TCCAATTTAC	180
AAACTCATAA	GGGTCAAAGA	CAAAGAGAGA	ATTTAGAAAA	CAGCAGGAGA	ATAGAAGCAA	240
ATAACATATA	AGATAGATCC	AATATGCTTG	GTAGCAGATT	TCTCAGCAGG		290

- (2) INFORMATION FOR SEQ ID NO:383:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 241 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:383:

GAGAGTGTGG AGAGGGTACA	TTTCCCTTGT	ATNCTATGTT	CTTCTTTCTA	GTGGGTCTCA	60
TGTAGAGATA GAGATATTTT	TTTGTTTTAG	AGATTCCAAA	GTATATATTT	TTAGTGTAAG	120
AAATGTACCC TCTCCACACT	CCATGATGTA	AATAGAACCA	GGAATAAATG	TGTCNTTGTG	180

ATAATCCCA G	T AGCAATTTAT GGTAAGAACA AGACCCCTTT CCCTCACCAC CGAGTCTCGA	240 241
(2) INFOR	MATION FOR SEQ ID NO:384:	
(i	) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 299 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(i	i) MOLECULE TYPE: cDNA	
(x.	i) SEQUENCE DESCRIPTION: SEQ ID NO:384:	
GACGAAAGA TATTACTGT CTTCAACTT TCCCTGCTC	C TTCATGGCCT AGAAACACAA TAAAGCCCCA CAACAGCAAA CTTTTTAAAC G AGCTCTAAAT AACAGCAAAA TGCTGCTCTT CTTGCTCCCA TTATGTTTAC G CTCTAGTGAG AATAGCAAGG GGTCAAAGGA ATTTATAACA CTTCCTATAC CA CCAAGTCCCC TACCAAGTAA CAGTTTTCTG TCAGAGAGAA AGTTCTGCCC CA AAGGTGTCCA TGCCAACTAG ACTTCCCCTG TAGCTACCTG GGTCTCGAG	60 120 180 240 299
(2) INFOR	MATION FOR SEQ ID NO:385:	
(i	) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 546 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(i	i) MOLECULE TYPE: cDNA	
(x	i) SEQUENCE DESCRIPTION: SEQ ID NO:385:	
TAAGCGATA AAGGTGAAG AATTAGGGG AGGCAGGTC AGCCTCGAT TCTAGTGCC GCTCATGCA	C TTCATGGCCT AGAAAGAGGT GGCAGAAGGA ATGGTAGGAA GGGGAGGATG AT CATCAAGTCA GAATCATGAG TTCTTGGTGC CCGGATGTTA GAGGAGGGAA AA TGGCTGAAGC TGTACACTTT CATGATGGTG GAATGGAGGG GTCCCTTGGG AT GTCTCTAGGA AGAACCAGCT TAGGGTACAT TGAGAAAGAG GAGACAGGCT AT AGAATTCAAT CGCAGATCAC AGCTACAAGG ACCAGGCCTT TGATACTCTG AT GCTCTGATAG CATGGAGACC AGCATCTCTG CTTGCTCACC AGACAACATC ATGCACTTCAAA TATTGCTAGA ATAGAAGAAA TGGAGAGACT TTTGAAGCAG AAAAGACGCG GCTGCTCGAA TCCAGGGAAC GGGAAATGGA AGCCAAAAAA ACGACGCCGG GAAATCCTGG AAAAACGATT ACAGGGATAG	60 120 180 240 300 360 420 480 540
(2) INFOR	MATION FOR SEQ ID NO:386:	
(i <sub>.</sub>	) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 317 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(i	i) MOLECULE TYPE: cDNA	
(x	i) SEQUENCE DESCRIPTION: SEQ ID NO:386:	
CAAAGTGGT	CA TACATCATAG GTGTATGTTT AACTGTTCAA GAAACTGCCA AACTGTTTCC TT GTATTGTTTT ACATTTCCAC GAGCAGTGTT TGAGAGCTCC AGTTCTTGCA CC ACAAAAAGGT TCTGTTTTTT AAAGACAATT TTTTTTTTCT TTGAGAGTTT	60 120 180

AAATGAGATT TCTCGAG

CGCCCTAGTC GCCCAGGCTG GAGTGCAGTG GTAAGCGAAT CCCTGCTACA GGCCAGAGAC

TGTTCTCAGT TGGTTTTTAC ACCAAGTATC GCACTTCATT CTAACACTCC ACCATTTTAC

240

300

(2) INFORMATION FOR SEQ ID NO:387:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 234 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:387:	
(AI) SEQUENCE SESCRIFTION. SEQ IS NO.507.	
GAATTCGGCC TTCATGGCCT AGGTCAGGTT AGTCAGCTAA TCGATAAGAG ACTTGAAATT ACTCTTTTGG GATTAGCAAA TAGAAGGGAA AAACATGATA AGGGCACAGA GCGGTGGGTC TGGGGGAAAA AGCAGAGGCA CAGTTTGAAA AAAATGTGTA AGAGACTGAC TAGGTAAGAT ATGGTCACAG TTCATAAGTC CTTTGAATTC TAGGATTAAA AAGGTGAACT CGAG	60 120 180 234
(2) INFORMATION FOR SEQ ID NO:388:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 294 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:388:	
GAATTCGGCC TTCATGGCCT ACTAGATAAG TGTCAATTCC ATCTGCTTCT GATTTCCCAC GTCACTGCCC TGGTCCACAC ACTGTGATCT TCTGCCCCCA TCTGAGTGCC GCATACTCAG CCTTGTCCCT GCATCAGACC CCGGCCCAGC ACAGTAACGA GAATGGGCTT CCTAAACACA AATCTGATTT GTTCCGCCTT CCACTTCCTA GTGGCTTCAT TCTCGTGCCC TCACTCAGGG CCCTCACACAC TGCTGTTCCC TGCACCTCCG ACACCCTTCC CAGCGCCCCT CGAG	60 120 180 240 294
(2) INFORMATION FOR SEQ ID NO:389:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 215 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:389:	
GAATTCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAAAA CTAAAAAGCA GTTTGTTGCA ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAT AAGGAAGCAA GGTAATAAAA CAAAAATATA AACAGCTTTG AGAAAGTACA CCTAATAACA AAATCTTGTA ACACAACAAA TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG	60 120 180 215
(2) INFORMATION FOR SEQ ID NO:390:	
(i) SEQUENCE CHARACTERISTICS:	
220	
:	

- (A) LENGTH: 477 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:390:

GAATTCGGCC	TTCATGGCCT	AGAAAAACAC	TATAGTCACG	CAAGTAATGA	CCCTTCTTAT	60
CCTCAACCCC	CAGCATATAT	GCACAAGGAC	AAACAGTATA	CATACAATCT	CACCTGAGAG	120
ACGTCCTCAG	ACTTGTGTTG	AAACCTTATC	ATGCTGCATT	ATCTCCCTTA	CAACATCCTT	180
CCTGCCTTGT	TTCTCATTTT	CACACTATAC	GGAGTAAAAA	AATATACAAT	TTCTATATAT	240
ATATATATAT	ACCTCCATAT	ATTTTATACT	ATTTCATATT	TTTATACTAT	CAGATTAATG	300
TTTTATATTT	TATCTATCAT	TTTAAATATG	CTATGTAAAG	CATCTACAAA	ATTGGTCACC	360
ATTCCTATGG	GAAGTATCTG	CAGAACTCTA	GAAATGAATT	CATCTTTTGC	TTACCCCTCC	420
CTTTTTGAGG	GGACAGGGAC	TTTCTTCTTT	TCCCTCATCT	TCATCTTCCC	CCTCGAG	477

- (2) INFORMATION FOR SEQ ID NO:391:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 247 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:391:

GAATTCGGCC	TTCATGGCCT	AGTTAGTCAG	AGTGAAATAT	TCAATAATGA	GTGGTGCAGC	60
CTTGGGACTT	GAGATTGTTT	TTGTCTTTTT	TCTGGCATTA	TTTCTGCTTC	ATCGATATGG	120
AGACTTTAAG	AAACAGCATA	GACTTGTGAT	TATTGGAACA	CTGCTTGCTT	GGTATCTCTG	180
CTTTCTTATT	GTCTTCATAC	TGCCTCTGGA	TGTTAGTACG	ACAATATACA	ACCGGTGCAA	240
GCTCGAG						247

- (2) INFORMATION FOR SEQ ID NO:392:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 366 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:392:

GAATTCGGCC	AAAGAGGCCT	AGTCATCTGC	ATTTATTATG	AGCAGCAGGT	GGGACACTTC	60
CAGCAACAGT	AAAAAAAGT	AATTTACAAA	AGCAGGTTTC	AGTGAAGCCA	TCTGGTTGTT	120
ACCCTTGGGT	GCTCACACGT	AGATGCCAAC	CCAGAGCAGC	AGGAAGAGGA	CTCCAAAGCC	180
CATGAAGAGT	GAGGCCACTA	AGGAGATGAG	GAGCTCTTTA	TAGATATCAC	GAGTGTACTT	240
GGTAGAGGTG	ACCTCGTAAA	CGAAGAACCA	GGCGGTGAAG	AACATGCCAA	TGGCCAAAAG	300
CACCACGGTC	AGATGGGGGA	AGACAGCTGG	GTTCACTGGG	CTGGTATATC	TGCTCATGGC	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:393:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:393:

GAATTCGGCC	AAAGAGGCCT	ACCCTGGGTT	AACATTCAAG	ATGGTACATG	CTGAAGCCTT	60
TTCTCGTCCT	TTGAGTCGGA	ATGAAGTTGT	TGGTTTAATT	TTCCGTTTGA	CAATATTTGG	120
TGCAGTGACA	TACTTTACTA	TCAAATGGAT	GGTAGATGCA	ATTGATCCAA	CCAGAAAGCA	180
AAAAGTAGAA	GCTCAAAAAC	TCGAG				205

- (2) INFORMATION FOR SEQ ID NO:394:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 387 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:394:

GAATTCTAGA	CCTGCCTCGA	GCCGGAGATG	GANAAGAAAG	TCAGCCTACT	CAAGGACAAT	60
AGCTCTCTGG	AATTTGACTC	TGAGATGGTG	GAGATGGCTC	AGAAGTTGGG	AGCTGCTCTC	120
CAGGTTGGGG	AGGCACTGGT	CTGGACCAAA	CCAGTTAAAG	ATCCCAAATC	AAAGCACCAG	180
ACCACTTCAA	CCAGCAAACC	TGCCAGTTTC	CAGCAGCCTC	TGGGCTCTAA	TCAAGCTCTA	240
GGACAGGCAA	TGTCTTCAGC	AGCTGCATAC	AGGACGCTCC	CCTCAGGTGC	TGGAGGAACA	300
TCCCAGTTCA	CAAAGCCCCC	ATCTCTTCCT	CTGGAGCCAG	AGCCTGCGGT	GGAATCAAGT	360
CCAACTGAAA	CATCAGAACT	TCTCGAG				387

- (2) INFORMATION FOR SEQ ID NO:395:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 553 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:395:

GAATTCG	GČC	AAAGAGGCCT	ATCGAGAAGC	CTTGTTTATT	TAATGTGAGT	TTGTGCCTTT	60
TTGTCTC	AAT	CTTCCAATAC	AGGTATATTG	AGAAAAAAAG	CAGTCTAATA	AAATCCTAGA	120
CAGAACT	TTC	TGGAGTCCAG	TTTGGTGATG	TCCATTTTCC	AGCTGTATGT	ATCCTCAAAC	180
TTGCACT	GAT	AACCGCCATT	TTACCAGGGC	AGGATTAGGA	AGAGGTACAA	AGGTGTGTCT	240
GAAAATT	TTT	GCACGTGGAT	TTCTGCATAT	AATAGTCCCG	TGTCAGTTTA	CTTATGCAAA	300
CATTGCA	CAT	CTGAATTGTA	ATTCGGCCGT	TTCCTACTGA	CAGGATGTCC	TTTTGCTTTT	360
GTCTGCC	TCC	TCTTCACATC	TTCCTCTTTA	TCCACCCTGC	AGCCGGGGGG	CGGGGGAGAC	420
CGGATCC	CAG	GCAGGACAGT	GGCTAGGCTG	CGTGTCCCCA	CCCCCGACCC	TCGTTTGACC	480
CCTGGGA	GCC	GGGGCGAAGA	CAGCACAAGG	ACGGAGCCCT	CGGATCCCTC	ACGAGTGGGG	540
CAGAGGC	TGC	GGG					553

(2) INFORMATION FOR SEQ ID NO:396:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 472 base pairs
    (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:396:

GAATTCGGCC	AAAGAGGCCT	ACAAGGTTAC	TTGACCAAGA	TGGTGACATT	GTAAGATTTG	60
AACAAAGGAA	ATGTGACTTC	AGAGTCATGG	TTGTTAACTA	TGCTATGAAG	TAGGAAAACT	120
TTATGAGGTC	TTTTTAACTC	AAACAGTCGA	GTTTTAAGTT	GAGGGTTAGC	AATGATGAAT	180
GAGTGGCCAA	AAAATGTATT	CATATTTTTA	GTCTTTCTTA	GAATTACTGG	TAGTTGTGCA	240
CAACTAGAGG	GTATTTATTT	GTGTGTGTAT	${\tt GTGTCGTGTG}$	TGTACGAGTG	CTGGAAATAC	300
TCTGCCAGTT	TACAGTAGAG	GCAGGCTTAC	ATAATTCAGT	CATGAAAGCT	GAGGCTTATA	360
${\tt GTTTAGAGGG}$	${\tt GATCGTCCTC}$	TTCTTAATGA	GTCTGTAAGT	TACAAAAATA	ACTTTTTTCT	420
TTATTTACTA	ACTGGTTGGT	TTTTAATATT	AAAATATTAG	GTGCTTCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:397:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 548 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:397:

GAATTCGGCC	AAAGAGGCCT	AGATTGGGGG	ACATTCTTCT	TTAGAAGGAA	AAGAGTCTAA	60
TTAGTGGATA	TTAAGTAATT	AAATAATACA	TACTATCAAA	TATTATGAGA	GTCACATGAA	120
CCATGAAGTC	TTCACTTAAT	TTAGGAGAAA	TGGGGAATAT	TTTCTATCAT	TCCTGATAAC	180
AGAACTAGAT	ATTTCAAGAT	CATAGTCATG	GAATGTAATC	CATAATACCA	AACAGGGTGC	240
TTTACTTTGA	AGCCATTGAC	CATTAAATTT	GATTGTTAGT	AGCACAGGCT	ACCAAAAAAT	300
AGCAAGGAAT	ATGGTATCCA	CACAGATCTC	GCTGGCCTC	AAGTAATCAA	AAGTGAGAAT	360
GAAACATACA	TGACACAACT	GGGGACCTCT	GGGTTTCTGA	GACGTGGGCT	ACAAGATTAT	420
ATTAGGTAGA	AAACTAAAGG	AAATGTATTC	CAAGCAAAAG	TGGCAAGGGA	ATTTCACAGA	480
ACTAATTTTT	TAAGGGAGGT	AATAAAAGCA	GCAGTTAAAA	TGCATGTCCA	TGTATCAGAT	540
TCCTGGAG					•	548

- (2) INFORMATION FOR SEQ ID NO:398:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 462 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:398:

60	TGAAGACAGC	ACCGATTTTC	CCGGCACGAG	AGGCTAAATA	AAAGAGGCCT	GAATTCGGCC
120	CCGCCCTGCT	GAATGATAAG	AACACCTCTG	AGCGGAAAAA	CTGTTAATCC	AGATTTATCA
180	CTTCGTGTGC	CAGCCTTGAC	ATTGTGGTAT	CATCCCTCTG	TGGAGTGGAT	CCAGGGAGGA
240	GCACAAGGGC	AGCTGGAGAA	AAGGAGCTGC	GGAGAACTGC	TCTCAAACTC	CTCATCCACT
300	CACGGTGATC	CCATCCTGCC	GGCTGGGGCT	GGTGGAGTCG	GCGTGGTGGT	GAGATCCTGG

CTGGCCAACA TGATGAATGG CGGCCCGGCT GCCCGCTCGG GGAAGCTGAG CATCGGGGAC CAGATCATGT CCATCAATGG CACCAGCCTG GTGGGGCTGC CCCTCGCCAC CTGCCAAGGC ATCATCAAGG GCCTGAAGAA CCAGACACAG GTAAAGCTCG AG	360 420 462
(2) INFORMATION FOR SEQ ID NO:399:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 428 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:399:	
GAATTCGGCC AAAGAGGCCT AGGCCGGCCA CACAGAAAAA TGCGAGGAAT AGAAATGCTT GCATACTCTT GATTTTTTTT TTTTTTTTTG GTGTAAAAAA CACACCCTCC CCTCCCACCC CAAAAAAACAT CAAATTCCTT CCTTTTCCCC AAATCCTGG ATCTTGGAAT GAAAGCCACC CTTCCCCAAT CTGTCCTCAC CTCCTTCAGC CCATCCAAGT TATGCACAAA AAAACAAAAAA TTAGTGAGAA ATTTGGGGAT TTGCACAACA AAAAATTAGA TAATGTTTTC CAAAACTAGG TCTTCTATGC TGTGTCAAAA AAAGTTTCCT ACAGACTGAG GATATTCACA CGACAGGAGC CTGGGGGTTA AATGAGCCTT TATTAGAATG TTGTAGCAGT TGTGTTTGAA GGCGGTGGCC CTACAAAA	60 120 180 240 300 360 420 428
(2) INFORMATION FOR SEQ ID NO:400:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 269 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:400:	
GAATTCGGCC TTCATGGCCT AAGTTGAAAC TTACGAGTAA CATACCTGGT GTCTGATTGG TTGTCATACT TTTCATTTTC CCTCCTTTCA GATCCAATCC ATTCTACACA TTATACTGAT TTTTTCCTAG TGTACTGATT TCTGTTATGT CACTTTGCTG CTTAGGCTTC TTAATGCTTA CTGTATCAGG TGTAAACACC TTTTGCTTAC CTTTCCAGGC CTTTTTAGAG TCTTATATAG CTTACTCCCA TGCTCCAACT CCCCTCGAG	60 120 180 240 269
(2) INFORMATION FOR SEQ ID NO:401:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 236 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:401:	
GAATTCGGCC TTCATGGCCT AGGCACTTTG AAGAGATATA GAACTCCGTG TATCACATTT TCCATTTTTA TTTCAATTTT TAATTGCCCA GAGCCTAATT TCTGTGGGCC TCTGCTGATT TGCACATTTG AGATTCGTGT GTAAATATGC GTGTGGCATG TGTACACGCC TGGGCCTCCT TATCACAAAG TGTGCTCTCT CAGTGTTTAA ATACACACAA TCCACATCGA CTCGAG	60 120 180 236

(2)	INFORMATION	FOR	SEO	ID	NO:402:
,	THE ORGENIE TON	7.010	~~~		

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 292 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:402:

GAATTACCTT	ATACACATAG	CCTGAAGGTA	ATTTTATACA	ATATTTCCAA	TAGTTTTGTG	60
CTTCAAACAA	AGTTTGGGTA	CATTGAACCA	TCAGAAAGGA	AAGGTGTCAT	TGTCTCAGCC	120
ACCCATGTGG	ACAATCTCTG	GTTGTTTGGC	ATCACTGTTG	TTGCTGAGTC	TGAATGTGAG	180
GAACATGCCA	TTGGCATGTC	TTGCCCACAC	ACACACCATT	TTGTTATCTT	TTGTGGGTGT	240
GCTTATGTGG	GGGAATCTGG	GCGTGTGTGA	AAAAAATATA	TTGCAGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:403:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 345 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:403:

GAATTCGGCC	TTCATGGCCT	ACTTGGGGTA	CTGAGATACA	TGGGGCCGAA	AAGGGGTAAT	60
ATGGCCATCT	TTTATCAGAA	AAAGTGACAA	AACGGGAATT	TAAAAAATGA	ATTTTCCATC	120
TGACTTTATT	TCCAAATACA	CTTTCTTTTT	TAAAAAACCA	ATACACTTTC	TTTGAGGATG	180
ACAGTATTAG	GAAATCCAAT	TATACAAAAA	ATACTACATC	TAGTCTGGGG	TAGATATATT	240
TATTTTTGGT	AACATACATT	AAGTGGCACT	AATTACACAG	TAACTATAAG	GTAACTAACA	300
TGAAACCACA	GAACTGTAAC	TCTGCCACAG	CTGCATGAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:404:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 252 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:404:

GAATTCGGCC	TTCATGGCCT	AAAAAAAAA	AAGCCATTAA	TCTAATTAAT	TGTTTAATCC	60
TGCTTACAAG	ATTATCTTGA	AAAAATGTGC	TGGGGAGTAT	GGTATAATGA	ATTACGGGTC	120
CAAGAATTTG	GGTTCAGATA	CCACCTTCAG	TCTTTACTAA	GCTGCGTGAC	TTTAGCAAAG	180
TGCTTAGTCT	CTCTAAGCTT	CGGTTTCCTA	ATCTATGAGG	AGGGCCTAAG	ATATCACCAC	240
CCATCACTCG	AG					252

- (2) INFORMATION FOR SEQ ID NO:405:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: CDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:405:

GAATTCGGCC	TTCATGGCCT	AAGAATACGA	AATTTGAGAG	GATGAATTTG	ACCTTTAATA	60
TTGTTGGACT	TTGTATTGGA	TATCTTTCCT	CCATCACTTC	AAAATCGTCT	TGCTTGGCCT	120
CTTATTGCAA	CCACAGCTGC	AGTAGACAGT	TCCATACAAG	CTTCCAAGAA	CTTCATGGGT	180
ACATCTGGAG	AGCACCTCAC	CTGGGGCCAC	ATTCTCTACC	TTTCCTGTCT	TACTCTTCCT	240
CCTCTGGGCT	TCTTTCTGGT	GCATGGGGGT	GGGGGGAGAT	ATTAAGTATT	CCCCAACAGC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:406:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:406:

GAATTCGGCC	TTCATGGCCT	ACACAGCAAC	AACCAACATA	GCTAATACAG	AAAGCAGTCA	60
GCAGACTCTA	CAGAATTCCC	AGTTTCTTTT	AACAAGGTTG	AATGATCCTA	AAATGTCTGA	120
AACGGAGCGC	CAGTCCATGG	AAAGCGAGCG	TGCAGACCGC	AGCCTGTTTG	TCCAAGAGCT	180
CCTTCTGTCC	ACTTTAGTGC	GTGAAGAGAG	CTCATCCTCA	GATGAGGATG	ATCGGGGGGA	240
GGTTCTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:407:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:407:

GAATT	CGGCC	TTCATGGCCT	AAAAGAAACT	AGGTGTGATT	GGAAGGAAGA	ATCATGAAAG	60
ATCAG	GGTAG	ATACTGGTGG	GGCAGCTATT	AAAGGAGTTT	GAGCAGGGGC	ATGACATCTT	120
CACAT	TGAAA	GCAATATGGG	AGTCGAATTA	AATTTAGTAC	CCAGTTGAGA	TAAAAGTCCA	180
TTGCC	TTATA	CACAGTGAGG	TGGGACAAAA	GCAGAGTCAG	AGAGATTAAG	AGGCTGGGAA	240
AGATT	GAAGT	GATTTTTAGG	AATCAGAATC	CACATCAGTT	GATGACAAGT	ACAGAAGGGC	300
ACAAT	'AGCAA	GAAGAAGAAG	TAAATGATAA	TTCCTAGATG	CCATTAGTCA	CAATCAAGTA	360
CGGAA	GAGAC	ATTATTGACT	GAGGTTGAAT	CAGGGCAGAG	AAGATAATAT	ACCTGATTTT	420
GGAAG	TGTTG	CATGTAAGGG	GGCTTCGATT	TCAGCTACTT	ACATACTTGG	GAAGTCTCGA	480
G							481

- (2) INFORMATION FOR SEQ ID NO:408:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 308 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:408:

GAATTCGGCT	TCATGGCCTA	CCCGGCAATT	GGCTGATCCG	CAGAAACATT	TCTGGGCTTC	60
TTTTCCATAT	CTCTGGAACT	GATAGTCAAA	CGTTAACTCT	GAGCCTGAAG	GAACCAGTTT	120
GGTGGTAAAA	AACCCAACCC	TCAGTTGTCC	GTTCACAGTC	CATTTTTGGG	TTTCACAATT	180
TGGTTCACAG	CTGTGATTCA	TGAAACGAGA	GCAATTTCCT	TTTTGAGTGG	CATCTATTAT	240
CTCATCATTC	TTCAGGGCCA	TGAAATAGTA	ATGGATGTTT	TTGTTTCGTG	CATACTCCTT	300
CACTCGAG						308

- (2) INFORMATION FOR SEQ ID NO:409:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 337 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:409:

GAATTCGGCC	TTCATGGCCT	ACAATGAGGA	TAATACAAAA	GAGCAATCTG	CCCCACTGTG	60
AGCCTGAGCT	TCCCATACTG	ACTTCTCTCT	CTCCAGAGGG	ATCCACTCCT	ACCAGTCTGG	120
AAAGCACTGG	GCATACAAGC	GCACAAATGC	GTGGCACATA	CTACAAATCC	TTCTAAAGCC	180
ACTGCTGTAC	ACCTGCCTCA	CTTAACCATG	CAGCCTCAAG	GCTGTCTCAT	GTCATTCTTT	240
CCTACAGCTG	CAGAGTTTTC	AACATATGGA	CAGGTGTGCC	AGGATTTATT	TGACTAGTCT	300
CTTACTGATC	TAGCTCACCT	CCTAAATACA	ACTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:410:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 315 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:410:

GAATTCGGCC	TTCATGGCCT	AAAATGTGGG	GATTGGGAAC	CACTAGTTCT	TTCAGATGGT	60
ATTCTTCAGA	CTATAGAAGG	AGCTTCCAGT	TGAATTCACC	AGTGGACAAA	ATGAGGAAAA	120
CAGGTGAACA	AGCTTTTTCT	GTATTTACAT	ACAAAGTCAG	ATCAGTTATG	GGACAATAGT	180
ATTGAATAGA	TTTCAGCTTT	ATGCTGGAGT	AACTGGCATG	TGAGCAAACT	GTGTTGGCGT	240
GGGGGTGGAG	GGGTGAGGTG	GGCGCTAAGC	CTTTTTTTAA	GATTTTTCAG	GTACCCCTCA	300
CTAAAGGCAC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:411:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 277 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:411:

GAATTCGGCC TTCATGGCCT	ACCTGAACCC	CTTACTTCGA	AGGATCATAA	GATTCACAGG	60
GGTGTTTGCA TTTGGACTTT	TTGCTACTGA	CATTTTTGTA	AACGCCGGAC	AAGTGGTCAC	120
TGGGCACTTA ACGCCATACT	TCCTGACTGT	GTGCAAGCCA	AACTACACCA	GTGCAGACTG	180
CCAAGCGCAC CACCAGTTTA	TAAACAATGG	GAACATTTGT	ACTGGGGACC	TGGAAGTGAT	240
AGAAAAGGCT CGGAGATCCT	TTCCCTCCAA	ACTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:412:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 316 base pairs
    - (B' TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:412:

GAATTCGGCC TCATGGCCTA G	TGGTAGGGC	TGAATTCGCA	CTATAGGGTT	AGATTTTCTA	60
CTGTAGGGTT AGATTTTTTT A	ATGGTGTGT	TAATAATAAT	ATAATATTAA	TAATAATCGG	120
AGAGGGTCAA AGAGGAGGGA A	ACTGGGTAA	CCCAAAAACA	TAAGGTCGAG	GTCCCTGTTC	180
TTCACCGGAA AGAGGGTCAA G	GACCAAAGC	CATAGATTTG	ACTGGTAGTT	TAGTTTAGTC	240
CTGTCTACGA AGAAGAAGAG C	GGTTGTTTG	TTTTAACAGA	TTCAAGAGCA	GGAAGCACTC	300
ATTTAGATAA CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:413:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 249 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:413:

GAATTCTAGA	CCTGCCTCGA	GTCAGGCTTT	TAAAAACAAT	CTCATCTGTC	CCTCTAAAAA	60
TTAGCTTCCT	TTAGAACCTC	TTCTCCTTGG	CAATATATTA	GTGATACTAT	TGTTATCTTC	120
ACACTAAAGA	TTCAAAACTT	TAGTTTTTGT	TTTAGGAAAG	TTTTTTTTTT	TTACATTTCT	180
TTCATCCTTC	ATAATTACCC	AGTCATCATG	AACTTTGTAG	TTATCTATTT	CTTCATAGGA	240
ATCCTCGAG						249

- (2) INFORMATION FOR SEQ ID NO:414:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:414:

GAATTGATAC	TAGGGACCGA	AGGGAACTAA	GAGACTCCAG	AGACATGCGG	GACTCAAGGG	60
AGATGAGAGA	TTATAGCAGA	GATACCAAAG	AGAGCCGTGA	TCCCAGAGAT	TCTCGGTCCA	120
CTCGTGATGC	CCATGACTAC	AGGGACCGTG	AAGGTCGAGA	TACTCATCGA	AAGGAGGATA	180
CATATCCAGA	AGAATCCCGG	AGTTATGGCC	GAAACCATTT	GAGAGAAGAA	AGTTCTCGTA	240
CGGAAATAAG	GAATGAGTCC	AGAAATGAGT	CTCGAAGTGA	AATTAGAAAT	GACCGAATGG	300
GCCGAAGTAG	GGGGAGGGTT	CCTGAGTTAC	CTGAAAAGGG	TAGGCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:415:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 529 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:415:

GAATTCGGCC	TTCATGGCGT	TAAAACTGTG	CCTAACAGAG	GTGTCCTCTG	ACTTTTCTTC	60
TGCAAGCTCC	ATGTTTTCAC	ATCTTCCCTT	TGACTGTGTC	CTGCTGCTGC	TGCTGCTACT	120
ACTTACAAGG	TCCTCAGAAG	TGGAATACAG	AGCGGAGGTC	${\tt GGTCAGAATG}$	CCTATCTGCC	180
CTGCTTCTAC	ACCCCAGCCG	CCCCAGGGAA	CCTCGTGCCC	GTCTGCTGGG	GCAAAGGAGC	240
CTGTCCTGTG	TTTGAATGTG	GCAACGTGGT	GCTCAGGACT	GATGAAAGGG	ATGTGAATTA	300
TTGGACATCC	AGATACTGGC	TAAATGGGGA	TTTCCGCAAA	GGAGATGTGT	CCCTGACCAT	360
AGAGAATGTG	ACTCTAGCAG	ACAGTGGGAT	CTACTGCTGC	CGGATCCAAA	TCCCAGGCAT	420
AATGAATGAT	GAAAAATTTA	ACCTGAAGTT	GGTCATCAAA	CCAGCCAAGG	TCACCCCTGC	480
ACCGACTCTG	CAGAGAGACT	TCACTGCAGC	CTTTCCAAGG	ATGCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:416:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 363 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:416:

GAATTCGGCC	TTCATGGCCT	ACTGAGCCTA	GTAATTCAAG	GCTGCAGTGA	GCTGCGATCA	60
CATCACTGCA	TTCCCGCCTG	GGCAACAGAA	GTAGACTCCA	TCTCTAAAAA	GAAGGAAAGA	120
AAAAAAGGAA	GAAATATACA	GTAATTTTAA	ACTGGGAGAT	GAAATGCTAA	TTTCTAGAAG	180
TCCATTTGGT	TTTGAAGGGT	CTCATGTCAA	AAAAAAAA	AAGTAAGTAA	AATAAGACCC	240
ATCCTACTGT	TTTATATACT	AAAATAGTAA	GTTAATTAAA	TGAAAATGAA	GTACATTTGG	300
GCTTTCATTT	ACCAATCCTG	GAATGTTGAA	AAGTTGCCCA	AAAGACATTT	AGCAAGACTC	360
GAG						363

- (2) INFORMATION FOR SEQ ID NO:417:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 129 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

60

120

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:417:	
GAATTCGGCC TTCATGGCCT ACCTGAAAGC CCATCTCCTC CAACTTGCAG CGCCGGTAGA GCTCGTAGTG CCGGCTGTGG GTCTGCTCGC GGAGGTCTTC CATGTTCACC CGGATCAACC TGCCTCGAG	60 120 129
(2) INFORMATION FOR SEQ ID NO:418:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 284 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:418:	
GAATTCGGCC TTCATGGCCT AGGAGGTGGG TATAGGGAAC ACTTGGGGAG AAATAGTGAA ATCTGAATAT AGACTGTGCA TTGTATCATT TAGTATAAAT GTTGACTTGC CTGATTTTGT TGTTGAAGGC ACTGTGGTTA CACAAGAGAA CGTCTGTCTT CCTAAGTGAT GCATGCCAAG GTTTGCAGGG GCATCCTGTC TGCAATTACT CTCAAATAGA TCAAAATAAT AATAACGTGT GTGTGCATGA TGGAGACAGG GAAGAAGAAA GGAAAGGGCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:419:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:419:	
GCCAGCACAT TGTGGAACAG AAAAATGGCA AAGAAAGAGT GCCCATCCTC TGGCATTTCC TGCAGAAGGA AGCAGAGCTG AGGCTGGTAA AGTTCCTGCC TGAGATTTTG GCCTTGCAAA GGGATCTAGT GAAGCAGTTC CAGAACGTCC AGCAAGTTGA ATACAGCTCC ATCAGAGGCT TCCTCAGCAA GCACAGCTCA GATGGGTTGA GGCAGCTGCT TCACAACAGG ATCACAGTCT TTCTGTCCAC ATGGAACAAA CTGAGGAGAT CGCTTGAGAC GAACAGCTCG AG	60 120 180 240 292
(2) INFORMATION FOR SEQ ID NO:420:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 304 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:420:	

GGAACCAACA GAACAACCTG TGAGGAAGAA CAAAATGGCC TCTAATATCT TTGGGACACC

TGAAGAAAAT CAAGCTTCTT GGGCCAAGTC AGCAGGTGCC AAGTCTAGTG GTGGCAGGGA

WO 98/45437

		PCT/US98/06956
CTTAGATCTG	TCATCTGGAC TGCAGAGAAG GAACTCCTCT GAAGCA AAGGGAGAAG GTGATATTCA TGAAAATGTG GACACA AGTGAAGAGA AGCCCGTGCC TGCTGCGCCT GTGCCC	GACT TGCCAGGCAG 240
(2) INFORM	ATION FOR SEQ ID NO:421:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 256 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:421:	
CTTTGCCTCT TGGATTGATT	TATACAGAAC TTGGCCTGCA GAAACTGAAG GAGTCT TTCTCTGATT ATTATTATAA GTGGTCCTCG GCGGAT ACCATCGTGG TACTCCTTGG GATCGCCTTT GTAGTC CAGTATTCTC CTCCACCGTA CTCTGAGTAT CCTCCAC CTCGAG	FCCT GTAACATGAG 120 FATA AGCTGTTCCT 180
(2) INFORMA	ATION FOR SEQ ID NO:422:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 216 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:422:	
GTTCCAAATG GATATTTCAA	TGGATCCTCC AGCTCTTCCA CCAAAGCCAC CTAAGCG GAATGAAGGA CAGTTCTGTT TCTCTTCAGG ATGCAGG GGGAGGAGGT AAATGACAAA TTGCGGGATA TGCCAGG CCTCAACAAA AATGCAGAGA CTCGAG	AATG GTACTGGGGG 120
(2) INFORM	ATION FOR SEQ ID NO:423:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 389 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	•
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:423:	
GAATTCGGCC	TTCATGGCCT AAAATTAATG AGTTGAACCT GTGACC	ACTG CATTCAAGAA 60

- (2) INFORMATION FOR SEQ ID NO:424:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 411 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:424:

GCCCGTGCTG	ATGTCTTTGA	AAGAAGGCTA	TAAGAAGTCC	TCAAAAATGG	TATTTAAGGC	60
TCCCATCAAA	GAAAAGAAGA	GTGTTGTGGT	CAACGGAATA	GATTTATTAG	AAAATGTCCC	120
ACCCAGGACA	GAGAATGAGC	TCCTTCGAAT	GTTCTTCCGG	CAGCAGGATG	AGATTCGACG	180
GTTGAAAGAG	GAGCTGGCCC	AGAAGGACAT	CCGCATTCGG	CAGCTCCAGC	TGGAACTGAA	240
AAACTTGCGC	AACAGCCCCA	AGAACTGTTA	GCTCCCCAGC	TGGGCTGTTT	TCTAAGCCGA	300
TCTCTCCGTC	GTTTCTACTC	ATCCCTTAAC	TTCTCCCTTA	CCAGTGACCC	CAGAGACAGA	360
GCCAGGACAG	GAGTGGGGGC	CAGCCTGAGG	ACCCCCCCCT	ACCACCTCGA	G	411

- (2) INFORMATION FOR SEQ ID NO:425:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 691 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:425:

GGTACCAACA	GGACACCCCG	GTGGCCCCCC	GCTTTGACGT	CAATGCCCCG	GACCTCTACA	60
TTCCAGCAAT	GGCTTTCATC	ACCTACGTTT	TGGTGGCTGG	TCTTGCGCTG	GGGACCCAGG	120
ATAGGTTCTC	CCCAGACCTC	CTGGGGCTGC	AAGCGAGCTC	AGCCCTGGCC	TGGCTGACCC	180
TGGAGGTGCT	GGCCATCCTG	CTCAGCCTCT	ATCTGGTCAC	TGTCAACACC	GACCTCACCA	240
CCATCGACCT	GGTGGCCTTC	TTGGGCTACA	AATATGTCGG	GATGATTGGC	GGGGTCCTCA	300
TGGGCCTGCT	CTTCGGGAAG	ATTGGCTACT	ACCTGGTGCT	GGGCTGGTGC	TGCGTGGCCA	360
TCTTTGTGTT	CATGATCCGG	ACGCTGCGGC	TGAAGATCTT	GGCAGACGCA	GCAGCTGAGG	420
GGGTCCCGGT	GCGTGGGGCC	CGGAACCAGC	TGCGCATGTA	CCTGACCATG	GCGGTGGCGG	480
CGGCGCAGCC	TATGCTCATG	TACTGGCTCA	CCTTCCACCT	GGTGCGGTGA	GCGCGCCCGC	540
TGAACCTCCC	GCTGCTGCTG	CTGCTGCTGG	GGGCCACTGT	GGCCGCCGAA	CTNATCTCCT	600
GCCTGCAGGC	CCCAAGGTCC	ACCCTGTCTG	GCCACAGGCA	CCGCCTCCAT	CCCATGTCCC	660
GCCCAGCCCC	GCCCCCAACC	CAAGGCTCGA	G			691

- (2) INFORMATION FOR SEQ ID NO:426:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 321 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:426:

GCAGACCATA	TATCGAAAGT	TCTTTACTTG	TATCAAGGTG	AGAAAAAATT	AGAAGAGATA	60
TTACCTCTGG	GACCAAACAA	AGCTCTTTTT	TATAAAGGAA	TGGCATCATA	TCTTTTACCA	120

GGACAAAAAT	CTCCATGGTT	TTTCCAAAAA	CCCAAAGGTG	TAATAACTTT	GGACAAACAA	180
GTAATATCCA	CGAGTTCAGA	CGCCGAATCC	AGGGAAGAAG	TTCCCATGTG	TTCAGATGCT	240
GAATCCAGGC	AAGAAGTTCC	CATGTGTACA	GGCCCTGAAT	CCAGGCGAGA	AGTTCCCGTG	300
TATACAGATT	CTGAACTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:427:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 190 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:427:

GAATTCGGCC	TTCATGGCCT	ATATACTATC	AAATGAAAAT	AGCAAGATGC	TACCATTTAT	60
ATTAAAAAGA	GGACAAAATA	TTAATATATT	CATGGTTGCT	TGTCTATGTG	GAATATTTCT	120
GGATATATAC	ATAAGAAGTT	ACATTGGTTA	CCTATGGGCA	GGTTACTACT	GGGTGGCAGG	180
TGGGCTCGAG						190

- (2) INFORMATION FOR SEQ ID NO:428:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 670 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:428:

GAATTCGGCC	TTCATGGCCT	AGGCAAAGCT	GGCCCTGACG	CCTGGGTTTC	TTGGCCCCAG	60
CTGCCCAGCA	GGTGCCTCGA	TTCCCTGCCC	TTGTGACCTC	CCAGGAAACA	GAACTGATCT	120
GGGACACTAT	GTCACCTCTC	CTCTCATCTG	${\tt GGGTCAGTCA}$	GGGTTCGGGG	GCTGCAGCAG	180
CCAAGCGCAT	GAGAGGTGTT	TCCTTGGCCT	TCCAGAAGGC	CCACTGTGGA	GCCAGCCTCC	240
CTATGGGAGG	CAGAGCGGCA	AGGACAGGGC	TTTGGAATCA	GCCAGGTCGG	CTCCTGGGCT	300
GTGGCCGTGG	AGAAACACTG	CCCCCAGGAT	GACACAGGCA	AGAGCCCCTG	AGGCATGGGA	360
GGCCCAGGGA	AGACCATGGG	CTGTAGGGGA	GAGTGTGGCA	GGTGACCCAA	AGGCCCAAAG	420
AGGGCCGTGG	GGCCTGAGGA	GGTCATAATC	TCTTCTGAGT	GGGGGCAGGT	CGATTCTTGC	480
ACAAGGTGGG	CTCTTCACTG	AGCCATAAGG	GACAGGGAGG	TATGGGAGAG	CGCTGGGGGC	540
CCATCCCCCT	GTCCACCCAG	TGTCCACTGG	CCTGTCCTTC	AGGGAGCAGA	GCAGAGCAGG	600
TGGTGGACGG	GCCCAGTGCT	GGGTGTTTTC	ACCACCATCC	CCCCATCCCC	CATCTAAGTC	660
GCTCCTCGAG						670

- (2) INFORMATION FOR SEQ ID NO:429:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 278 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:429:

GTAAGGATTG	GCGATTCCTA	CAGCGAATGA	TCACCGCTCC	CTGCATCCTC	TTCCTGTTTT	60
ATGGCTGGCC	TGGTTTGTTC	CTGGAGTCCG	CACGGTGGCT	${\tt GATAGTGAAG}$	CGGCAGATTG	120
AGGAGGCTCA	GTCTGTGCTG	AGGATCCTGG	CTGAGCGAAA	CCGGCCCCAT	GGGCAGATGC	180
TGGGGGAGGA	GGCCCAGGAG	GCCCTGCAGG	ACCTGGAGAA	TACCTGCCCT	CTCCCTGCAA	240
CATCCTCCTT	TTCCTTTGCT	TCCCTCCCCA	ACCTCGAG			278

- (2) INFORMATION FOR SEQ ID NO:430:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 299 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:430:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCTGTTCATC	TTTAAATGCT	60
GTTTTCTCTG	TTCAAAATGC	CCTTTCCTAC	CTTATCTACT	TGTGCCACTG	CATATTCCTA	120
AGGCTCAACT	CAGGGTATCT	TCCCTCGGAA	ACCTTGTCTG	ATCATCCTGG	CCCCTCTGGC	180
GGACAGTAAT	TTCTGCCTCT	GTGCTCCCAT	CACCTGAGCA	CACCTGTATG	GTGCTGCTGA	240
GCCCGCTGAA	TTGGCATTAT	GGGCACGTGC	GTCTCCTCCA	TTCCATGGAG	CTCCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:431:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:431:

GTTACATGAC	ACTGTTAATG	ATTGCATTTG	GCTTGCTGTG	GGGGCATCTC	TTGCGGATCA	60
AACCCACGCA	GAGCGTCTTC	ATTTCCACGT	GTCTGTCCTT	GTCAAGCACA	CCCCTCGTGT	120
CCAGGTTCCT	CATGGGCAGT	GCTCGGGGTG	ACAAAGAAGG	CGACATTGAC	TACAGCACCG	180
TGCTCCTCGG	CATGCTGGTG	ACGCAGGACG	TGCAGCTCGG	GCTCTTCATG	GCCGTCATGC	240
CGACTCTCAT	ACAGGCGGGC	GCCAGTGCAT	CTTCTAGCAT	TGTCGTGGAA	GTTCTCCGAA	300
TCCTGGTTTT	GATTGGTCAG	ATTCTTTTTT	CACTAGCGGC	GGCTCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:432:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:432:

GAATTCGGCC	TTCATGGCCT	ACCAGGTTCT	TGCTGCCCTG	CGACTCCAGT	ATCTGCAGGG	60
GGATTATACT	CTGCACGCTG	CCATCCCACC	TCTCGAAGAG	GTTTATTCCC	TGCAGAGACT	120
CAAGGCCCGC	ATCAGCCAGT	CAACCAAAAC	CTTCACCCCT	TGTGAACGGC	TGGAGAAGAG	180
GCGGACGAGC	TTCCTAGAGG	GGACCCTGAG	GCGGAGCTTC	CGGACAGGAT	CCGTGGTCCG	240

GCAGAAGGTC C TCGAG	GAGGAGGAGC AGATGCTGGA CATGTGGATT AAGGAAGAAG TCTCCTCTGC	300 305
(2) INFORMAT	TION FOR SEQ ID NO:433:	
(i) S	EQUENCE CHARACTERISTICS:  (A) LENGTH: 273 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:433:	
TTTTGCCACA T CTTTGGAATC C CATAGCTCTC T	PCATGGCCTA CTCCTCAGCC CCTCATCTTG CCTCCACCCA GCTGCTCCAT PCGTGGCCCG CAGCCCCAGA GTCACTGTCC ATGTCACCAT CCTCCTCCTC CTCTCCGCAC ACTGTGGCCC TTGTCTCAGG GCCCACAAGC TGAACTGTGG PCTTCTTCTC CAAGAAGACT CAGCAGCCTA CATTCCCATT CCTGGTATGT PGGATGTCCC CACTTATCTC GAG	60 120 180 240 273
(2) INFORMAT	FION FOR SEQ ID NO:434:	
(i) S	EQUENCE CHARACTERISTICS:  (A) LENGTH: 324 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:434:	
AACCAACATC C CAGCAAGTTA T ATTCTAACAA A CAGCAAGCTA G	GCCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA CCGCCTTCAG TGGTCTGTCA GATGACAAGA ATTACAAGAA ACTGGAGAGG AACAGCTTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA AGGAGATATT GGAAGCGGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGA GTTGGAGCAG ACCCCACACCT CGAG	60 120 180 240 300 324
(2) INFORMAT	FION FOR SEQ ID NO:435:	
(i) S	EQUENCE CHARACTERISTICS:  (A) LENGTH: 548 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:435:	
ATAACACAAA G CCATAGTGGT G AGAAGGGGTT G TAAGAATGAG T TTATTGTGAT G	TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT SAAGTAAGCA AATATGGCAG AAGTGTGGT GCTTTTGGCGT CTACTTTTGA GGCCCTGTTA TTCGTGGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA GGCCAAAAAAG GTCAGCCAGC TGATGGGTTG GACCAAGAAA GACAGAGTGA GGACACCATG TTCTATCATT TTGTATTAGA TGCACCAAAA AACTATTCTG GCTTACTGCT GCTCTCCACG CGTTCAGTTC ATGTGTCATG TGCAAAGGTG ATTTCAGATC TTGGCAAATT CCTATCAACG CCCTGGTGCA TTCACCACAA	60 120 180 240 300 360 420

AGGTATTTTT TGCAATGGTG GATTATGATG AAAGCCCTGA GGTCTTTGAA GCGCTCCAGG

TAACGTCAGT TCCGAGTTTC TTCCACTTTT CTGCCCAATG GAAATTTACA ACAGATGACA

480

GTCTCGAG	548
(2) INFORMATION FOR SEQ ID NO:436:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 308 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:436:	
GAATTCGGCC TTCAT.GCCT AAAATGAAAT TCAGACAAAA TCACTGGCAC CAAAAATGGT TTATTCTGAG CTGTCTTCAC TTTGACTATT TGGGGGGCTT CTCTCAAGTA CAGATGTGG TTGGGGTCCC CTGGAGCAGG CAGGATTGGC AGTAAGAGAT ATTGGCCACAT CAAGTCTACT GTGTGTGTGT GCCTCTGGAA GAGTGAAGAA TGGACTTCAA AAGTAACATC AAAAATCTAA CTGCCACCAT CCTGGAGACA TTTTGCAGGG CTTTCCTTTC	60 120 180 240 300 308
(2) INFORMATION FOR SEQ ID NO:437:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 420 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:437:	
GAACAGAAGA GATCCCCTCG GCCCCACGC CATATGACCA AAGTCACACC AGGTTCAGAG CTGCCCACTC CCAATGGAAC CACCTTATCA TCTAACCTCA CTGGTGGCAT GCCCTTCATT TCTACAGACA CTCCCATCTC CTCTGCAAGT TCAGAAGCTG CCTCAGCAGT GGTCAGTCC CAAACCACTT CCAAGGAAGA CCTTACTGAT CTAGAGCAAC CTGGCTCTCC AGGGTACAGC ACAGCTACAG AGCCTGGAAG CACTGAGCTA CCTGGTTCCCC AGCGTACAGC AGGCTCACGA GGGTCACGC TCGAGAAAAGTC CCAGTCAGCA TCTGTGGAGT CCATCCCTGA AGTGTTAGAG GAGTGCACGT CCCCTGCCGA CCAACTCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:438:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 279 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:438:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCT TCTCACTGCA CCTGGATGGC AACGTGCTGG ACCACTTCTC GGAGCTGCGC AGCGTCGAGG GGCTCCAGGA GGGCTCTGTG CTGCGTGTGG TGGAAGAGCC GTACACGGTG CGTGAGGCCC GCATCCACGT GCGCCATGTC CGAGACCTGC TCAAGAGCCT GGACCCATCC GATGCCTTCA ACGGGGTTGA CTGCAACTCC	60 120 180 240

279

TTGTCCTTCC TGAGTGTCTT CACCGACGC GACCTCGAG

(2) INFORMATION FOR SEQ ID NO:439: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:439: GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCA CCCAGCCTTC TTCTTTCAT TATAACCTTT ATACCACAGT AAGCTGTTGC ATCATTCAAA TGACTCTGCA TCCTATATTG 120 AATATTCTCC ATTATTCTCT AATATCTTTG GGGGTACCCA GGATTACAGG GTTCTGGGCA 180 TACATGTTAA TGCTTTTGCC AGGACTTTTC TTTTTATTCA TTGTCGTGAC CCATTGTCTT TGCTTATATT TAAAGTTTTT GCTCTTGATA TCATTGGTTC TTTCCTAAGT CACTTTTCT 300 GGTAACTGCT TTGGAATGAA TCATACATAT CTCACTTACG GAGCTCTCGA G 351 (2) INFORMATION FOR SEQ ID NO:440: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 412 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:440: GAATTCGGCC TTCATGGCCT ACCAATACTC ATAATTAAAA GTTTTTCGTT GTCAAAACAT TTTCACAGTT CAGGAATCAC AGTCCTATTT CATCTTTTGA AATAAAAGTT AAAGTCCATT 120 TTTCTTAAGC CTTATTATAC CATTATCCAA AAACACTACC TAGCATTCAT CTTAGTTTTT CATATCTCCT TAGCAGATAG TTTAGTATAT TCCATTTGTC TTATTTGAGG TTTAAAAAAA 240 GTTGTGGAAG AAGTTTCTCA GGAGTTCAGC AAGCCTTTCC ATCTATCTTC TATTTTAAAA 300 GAATGTGATT TATTGTTTTT ATGAATAAAA TATACCTCGT GTGTTTCTCA TATGATGTTC 360 CATTACATTA ATCATCCATT AAGTAAATGT TTTTGTGCTG CAAAAACTCG AG 412 (2) INFORMATION FOR SEQ ID NO:441: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:441: GAATTCGGCC TTCATGCCTA GCCAGGAGGA GGAGGACCCT ATGAACAAAC TCAAGGGCCA 60 GAAGATCGTG TCCTGCCGCA TCTGCAAGGG CGACCACTGG ACCACCCGCT GCCCCTACAA 120 GGATACGCTG GGGCCCATGC AGAAGGAGCT GGCCGAGCAG CTGGGCCTGT CTACTGGCGA 180 GAAGGAGAAG CTGCCGGGAG AGCTAGAGCC GGTGCAGGCC ACGCAGAACA AGACAGGGAA 240 GTATGTGCCG CCGAGCCTGC GCGACGGGGC CAGCCGCCGC GGGGAACTCG AG 292

(2) INFORMATION FOR SEQ ID NO:442:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 222 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:442:	
GAATTCGGCC TTCATGGCCT ACCGCCTCGC TGCCTGGACA CCTGTCCGTG CCACCCTGGT CACTGAGCAG GACATCGGC TCTGTGGCCC CTGGGACCCT GCCCCGACA GCCAGGCCTG GGTTTGTCCT TTTAGGTAGA GTGCCTGGTC CAGGTCATTG GAGGAGAGTC CACATGGCCA CCTCTGGCGT GTTCTAGAGA GGCCCTCCCG TCTAGGCTCG AG	60 120 180 222
(2) INFORMATION FOR SEQ ID NO:443:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 205 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:443:	
CTTTATGACA GCCATGAGCT TTTTCCGGTG CATTGCAATT GTTTTTCCAG TCCAGAACAT TAATTTGGTT ACACAGAAAA AAGCCAGGTT TGTGTGTGTA GGTATTTGGA TTTTTGTGAT TTTGACCAGT TCTCCATTTC TAATGGCCAA ACCACAAAAA GATGAGAAAA ATAATACCAA GTGCTTTGAG CCCCCACTAC TCGAG	60 120 180 205
(2) INFORMATION FOR SEQ ID NO:444: ,	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 178 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:444:	
GAATTCGGCC TTCATGGCCT ACCTGCCTCC CTCCTTGCTT CTTGCTCTGC TAACTCAACT CTGCCTTCCT CTTTTTCATT CTTCTACTCT GCCCTATATG GAGGACAAAT GGACACCAGG GGTGCTAACC TTATTGGTGC CTGCCCCAGC CTACCCCAGG TGCAAGCAGA CTCTCGAG  (2) INFORMATION FOR SEQ ID NO:445:	60 120 178
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 251 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:445:

CTTTCTCTTT AGCTTCTAAT	AAAAAAAATT TGCTGCCACT ACTTCTACTG	ATTTTTAATA TGGAGATGTC	TAGAGTCAAA CAAGTAAGAA	AAATTGGATG GGCCTTCTTT	TCAAAGGCTT TATTATTTTG TTACATGGGA GTACAGGCAC	60 120 180 240
TIGAACICGA	G					251

- (2) INFORMATION FOR SEQ ID NO:446:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 301 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:446:

					AATAAAAACA	60
AAATAAAATC	TTATCATATA	GGTGTAATCT	GTTCTAAGGA	AAAAATCCTT	CTATCAAGAC	120
TAAACGTCTA	ACTGAATACA	GAATGACATT	TCATGCCTTA	AGGTCTCTGT	CCATGTTGTT	180
					TCTCCAAAAC	240
CCAATTCAAA	CATCACCATC	AGAAAGTCTT	CCATGATGGG	CCAGGTGTGG	CGGCCCTCGA	300
G .						301

- (2) INFORMATION FOR SEQ ID NO:447:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 150 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:447:

GAATTCGGCC	TTCATGGCCT	AGCTGAAATG	CTTTCTATTG	GATACTATCT	GGGCATATTA	60
CTTCCTGTGG	TTCACTGTCT	GGGTGACAGG	ATTCATAGAA	GCCCAAACTT	TAGCACCACG	120
CAGCATACCC	TTGTAACAAA	${\tt GCCACTCGAG}$				150

- (2) INFORMATION FOR SEQ ID NO:448:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 226 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:448:

GAATTCGGCC	TTCATGGCCT	AATTTGATTT	TATTAGGTTT	AAATTGTATT	TCTTCAAATT	60
TCATAAACTA	TAGCATTTAT	CTCCATATTT	TTAATAAATG	ATCACAAATA	AATCACTGTT	120
AATATCTCCA	TTTACACTTT	TACAACTCCT	GCTATTGCTG	GATTTTTCAT	ССТАТСАТАТ	180

226

GTTAAACCAA TTTAAAATAC ATTTAAAGAA TCACAGCTGT CTCGAG

(2) INFORMATION FOR SEQ ID NO:449:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 453 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:449: GAATTCGGCC TTCATGGCCT AAGACTGGGG GCATGTACCC CACCTACTTT CTGCACCTGG 60 ACCGTGAGGA TGGGAAGAAG GTAAGGTTGG TCTGGGCATG TTATCATCTA GGCTTTACAG 120 CCCTTTGAAA TCCTAGGGGC TGAAATGTGA CTGGAAGTCT CATATCTACC GCTGACCTCT 180 CAGTTCCTCA AAGAAACTGC CTTCGTGTCT GGTCTGTGCA CATCTTTGTG TTTTCCAGTG 240 CATTTGTGTG TGTGCACATA TGTGCGTTTG GGAGCTGACG CAACGGAGAG AGTCTGTGTG 300 AGTGGCTCTC ATGACTGTGT GCAGACCAGA GGCTGAGTCT GGAATATGAC CTCATTCCAC 360 TCCCCAAGGT GTTCCTCCTG GCGGGAAGGA AGAGAAAGAA GAGTAAAACT TCCAATTACC 420 TCATCTCTGT GGACCCCACA GACTTGTCTC GAG 453 (2) INFORMATION FOR SEQ ID NO:450: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:450: GAATTCGGCC TTCATGGCCT AAAAGCAAAT TAACTTGTTC TGAAAAGAAA GTATAGATTA 120 ATTTTGTTTT CTGTTTAAAT TTTATCTCCT TGGTAAAGAT TTTTTTTTCC TGGGCAGAAA ACTTGGCATT TTTAGGCGTA GATACCTTAC CTTACAATGC CAAAATGAAT TTAATTCCAG 180 TACTCAGGTT TTTCCCTTTA ACAGACTCTA TGTGTACCAG GCATTGAATT CTAGACCTGC 240 246 CTCGAG (2) INFORMATION FOR SEQ ID NO:451: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:451: 60 GAATTCGGCC TTCATGGCCT AGTTTGGTGG GGTTGAAGTT GATGCCAAAC TCATGGGAGA CCTTCCAGTC TGGGGGTAAC TGGGCCCCGA ATCCCAGAGC TGGAAACATC TTATCACTGT 120 CGTAGTCCTG AATGATCTGC CCAACAGCCC AGATGGCCGA CAGATATTCG TTGGTGCCCA TAGGGTTGAT ATAGTGCAAA GAGGAAGGGT CGAGGGGATT CCCGTTGGAG GCTGTAAAGT 240 CTATTCCAAC GGTGAACATG AGCTGGCAGC CTCCCAGGAT GTAGTCAAGG AAGGAGTAGT 300 CTCGGTTTAT CTTGCAGGAT CGCAGGATGA TGATGCCCGA GTTTTTATAG TTCTTCTTCT 360 240

> . Telegrapischer (Kryge B

TCCTCTGCTT CTTGGGGTTG ATGCACTCGA ACTCCAGCGG GACGCTGTCT CGAG

414

(2) INFORMATION FOR SEQ ID NO:452: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:452: GAATTCGGCC TTCATGGCCT ACACACTGAC TGACAGACCA CGGTATGCCT TGCACCACCC TGGCTGCTGG GGTCCAAAGA GGGATCTGGT AGACCTGGGC TGGAATCTCA GCTTCACCAT 120 TTACCATCTG GGTGGCCAAT GGAGTGTTAC TTGGCCTCTC TGAGCCTCGG TTTTGCTCGT 180 CTCTGAAACA GTAAGATACC TCCCTTTGGC TGTTGTGATG AGGATGAAGG TTAGCCTATG 240 CCCAGTAGTA TGCCTGTCCC TTCATCGATG CCTGCTCATC TCACTCTTGC TCTGGAAACA 300 360 GAGGTGATCT CGAG 374 (2) INFORMATION FOR SEQ ID NO:453: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:453: GCGTCCGTCC GCCGCCACCA CCCACTCCGG ACACAGAACA TCCAGTCATG GATAAAAATG AGCTGGTTCA GAAGGCCAAA CTGGCCGAGC AGGCTGAGCG ATATGATGAC ATGGCAGCCT GCATGAAGTC TGTAACTGAG CAAGGAGCTG AATTATCCAA TGAGGAGAGG AATCTTCTCT 180 CAGTTGCTTA TAAAAATGTT GTAGGAGCCC GTAGGTCATC TTGGAGGGTC GTCTCAAGTA 240 TTGAACAAAA GACGGAAGGT GCTGAGAAAA AACAGCAGAT GGCTCGAG 288 (2) INFORMATION FOR SEQ ID NO:454: (i) SEOUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:454: GAATTCGGCC TTCATGGCCT AAGAAGTGTC TCCTGTATCC ACCTCTTCCT GGCCTCCCTT 60 CCCCCACTTC CTGGTCCCTG TCCACTCCTC AGGTTGGTGC TCTCACTTCT TGAAAGCTCT 120 AGGCACCCCC GCCTCCCGCC AGGCTCCCCG TTGGCTCCTG GCAGGCCAGC TGAGAATGAA CAGGAGATGG AGGCAGGCAG CCCAGGCTGC AGAGGTGAGG GATGTGGGGC CAGGCCCAGA 240 GGGCTCAGCC TAGAGGCTTC CAATCTCAGA TTCTCCTGCC TGTGGTCATC TGTTTGTCCA 300 TCACCCCAGG ACAGGGCAGA CAGAGGGGCA AAGCACTGGG GGCCCCAGAG CCTAGCTTCC 360 CCTCAGCCTG GGGGAAACTC GAG 383

- (2) INFORMATION FOR SEQ ID NO:455:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 409 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:455:

AGAGCACGTC	AATGCCATGA	GGGGCCTGCA	AAGCAGCAAG	GAGCTCAAGG	CTGAGCTGGA	60
CGGGGAGAAG	GGCCGGGACT	CAGGGGAGGA	GGCCCATGAC	TATGAGGTGG	ACATCAATGG	120
	CTTGAATGCA					180
	GCCTTAAAGG					240
GGCCAAGTAT	GAGAGTAAAA	TCCAGATGTA	TGATGAGCAG	GTGACAAGCC	TTGAGAAGAC	300
CACCAAGGAG	AGTGGTGAGA	AGATGGCCCA	CATGGAGAAG	GAGTTGCAAA	AGATGACCAG	360
CATAGCCAAC	GAAAATCACA	GTACCCTTAA	TACGGCCCAG	AATCTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:456:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 317 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:456:

GAATTCGGCC	TTCATGGCCT	AAATTTCATG	AAAAACAAAT	GGCTTAAACC	CAGGGAAGCA	60
AGGATTATAA	${\tt TTGATTTTTT}$	TGAGCAATGT	CTCTTTTGGT	TACAAAGTAA	AAGGTAAAAT	120
AAAAGTTTAA	AAGCATTTGG	AAAGAATGTT	CTTTGGTTTT	TTCACTCAGT	AACCTAAAGT	180
TTAATGACCC	TTTACAGTGC	TGATAAACAC	TTAAATTTTT	GCAGTAGGCA	TTGCTAGTTC	240
AAATTGAAGG	AAGGTTGCCA	GGCTCATGCC	TATAGTCCCA	ACTACTTAGG	AGGCTAAGGC	300
AGGGGGACGC	CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:457:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 510 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:457:

GAATTCGGCT	TCATGGCCTA	CTGCTCTTTG	GCTAAGGTGG	CAGTGTACCT	CTAGATCAAC	60
CTGGGCAACA	GTCACAAGGG	AGTGTGACTT	CTTGGCCATA	ATAAACTCAC	TTGATAGTGT	120
TTATGTTATT	AATCTGAATG	CAACAGAAGA	CAAAAGCACA	GGCATGCACA	CACACAGAAC	180
CCCAAACCAC	TAAAAACTAC	CTAAACACTG	ACTTAGTAAA	TAGTAAAAAG	GTAATGTTGG	240
GACTTTTAAA	CCTTGAATCC	ATTAGCCAGG	CTTGGGATGA	AAGGACCATC	TAAAATCATG	300
CTAGTCTAAA	CCATGCTCTT	CCACACAGCT	GTTTAAAAAC	CACTGGGTAT	GAGGAATATG	360
CTAGAAAGAA	ATGTTAAAAA	TAGATTGTTG	GCTCACACTT	ATTTTTCTAA	TAAATAGGAC	420
CATTATTACT	ACCAGGAAAG	TCTTATTTAT	TTTGCCTGAA	ATTGGCTTAA	AGAAAGTCTC	480

ATGACGGGAT GGGATGGGCC GGCACTCGAG

	210
(2) INFORMATION FOR SEQ ID NO:458:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 382 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:458:	
GAATTCGGCC TTCATGGCCT AGCGGAAACA ACTGAAACTA ATGGAAGATA TGGATACAGT AATTAAACCC CGTCCTCAAG TAGTAAAACA AAAAAAACAG CGACCAAAAT CTATTCACAG AGATCATATT GAATCCCCCA AAACACCAAAT AAAGGGTCCT CCAGTCTCTTA GCCTTTCTTT GGCATCGCTG AACACGGGTG ATAACGAGAG TGTACATTCA GGCAAGAGAC CGCCAAGATC AGAGTCTGTA GAAGGCTTCT TATCTCCAAG TCGTTGTGGC AGTCGAAATG GAGAAAAAGA CTGGGAGAAT GCATCAACAA CTTCTTCAGT GGCTTCTGGA ACAGAATATA CAGGACCAAA GCTCTACAAA GAACACCTCG AG	60 120 180 240 300 360 382
(2) INFORMATION FOR SEQ ID NO:459:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 433 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: GDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:459:	
GACTCTGCAG TTGGGAGCTT GTCCAGCTGC CCCCTCTAAT GCTTTTCTCC TCCAGGACAC AGGGAGCCTC CGGAAGCACA GTAGTCCCCG TGTGTCACCT TAGGCTGACC TCTGTCCCCA GGGGTGACGT AATGCTGTCA CTGTCTTGAA TTCTTCATCG TTTAACAGGG AGCCCAGTGT TTTCACCAAA AGCAGAATTG GATTTTTTT TTAAGTCGAT AAATTTTTAC TCAAGGAATT CCATGTTGTG ATTCTTCCA CTGTCCATCA AGGTCACTTT AGATCCTCTA AAGAGCTAGA GTCAAAAGAT TTATCTTCAA GTTAGTCCTT TTTAATGAAA CCGATGCTTA TTTTAATCCA	63 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:460:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 305 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:460:	
GTCCGGCTAA AGTAATCCAG TCACCTGCTG CTGATACTAG AAGGGCTGAG ATGTCACAAA CAAATTTTAC CCCTGACACT CTTGCCCAGA ATGAAGGGAA GGCTATGTCT TATCAGTGTA GCCTTTGTAA GTTTCTATCA TCATCCTTTT CCGTGTTAAA AGATCATATT AAGCAACATG GTCAGCAAAA TGAAGTGATA CTGATGTGCT CAGAGTGCCA TATTACATCT AGAAGCCAGG	60 120 180 240

TCGAG

AGGAACTTGA AGCCCACGTG GTGAATGACC ATGACAATGA TGCCAATATC CACACCGAAC

300

(1) INFORMATION FOR SEQ ID NO:461:  (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 563 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (11) MOLECULE TYPE: cDNA  (X1) SEQUENCE DESCRIPTION: SEQ ID NO:461:  GAATTCGGCC TTCATGGCCT AAGAAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA TGCAAGGAAG TGCACAGGCA TTGGCTGAAG TAGTGAAAAA CACAGAGAAC TTCTTAAAAG AGAATGGTCA AAAGCTGTCA CAGGAAGATA AGGCTTGAT TGAACAGAAA CTTAATCAAG AGAATGGTCA AAAGCTATCA CAGGAAGATA AGGCTTGAT TGAACAGAAA CTTAATCAAG AGAATGGTCA AAAGCATCA CAGGAAGATA AGGCAGCAG GTCTAAAAAG GACCAGCAAAAAAA AGGCAAAAAAAA GACAAACAGAAA CTCAAAACAGAAA CACAAACAGGAAA CTCAAAACAGAAAACAGAAAACAGAAACACTA TAGAGAAGAGA	TCGAG	305
(A) LENGTH: 563 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:  GAATTCGGCC TTCATGGCCT AAGAAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:  GAATTCGGCC TTCATGGCCT AAGAAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:  GAATTCGGCC TTCATGGCCT AAGAAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA (xi) SEQUENCE CTGAATTATCA AGGCAAGCAA CACCAAGGAAC TTCTTAATGAAG AGAATGGTCA AAAGCCTGCA CAGGAAGATA AGGCTGGATA AAGACTACAACA CACCAAGAAA CACCAAGAAAA GTCTAAAAAG GACCTGGATA AAGTGTAGCA CAACGAACA CAGAGAAA CTGAAAAAGGT AGCAGCACTG AAGCAGCACTG AAGGGACAAA CACCAAACAGG TAATCGAACA GACCAGGACC CATTTTCAAG AAGGTGATGC CAAGTCAGCAA TTCAGGAAGA TAGGAGAACT TAATGGGAAC CATTTCAAGA (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:  GCGGCTGTGA AGATGGCGC GCTCCAGGTT TCCTGCGCG ACCGGCACC CGTTAGCTCC CTGGGAGCT CACAATGCCA ACTCCGATA CCCTCGGGGA AAAATTTATT TAGTTTTGGA AAGAGCCCAA AGAAGCGT GACTCCCTCTTT TCCAGGTTT TCTGACCTG CCCGACCGGT CCAAATGCCA ACTCCGATA CCCTCGGGGA AAAATTTATT TAGTTTTGGA AAGAACTCTT CTGGAAATAC CACTATCTCT CTGAAGTTTO ATGGACACC TTTGACCTG CCCGACCGGT CCAAATGCCA ACTCCCGATA CCCTCGGGGA AAAATTTATT TAGTTTTGGA AAGACCCATA AACCTGCATT CTCTGAAGTTTO ATGGACACC TTTGACCTG CCCTACCGGT CCAAATGCCA TCTCGATA CCCTCGGGGA AAAATTATT TAGTTTTGGA AAGACCCATA AACCTGCATT CTCTGAAGTTTO ATGGACCTG CTCTCAGCTC CTTTTAGAACG ACTTCTCTCGAA AACCTCAGGACC TTTCGACCTG CCCTACCGGT CCAAATGCCA CTTCTCCTGAA AACCTCAGGACC TTTCGACCTG CCCTTCGAACCATACCCATACCAAAAGCACC CTTTTTTCGACCTG CCCTCCCAAATGCTA CACCACGACC CCTTCCCAAATGCTA CACCACGACC CCTTCTTCTCAAAAAACCAGACC CTTTCTCGACCTG CCCTCCCAAATGCTA CACCACGACC CCTTTTTCTCGACTG CCCTCCCAAATGCTA CACCACGACC CCTTCTTCTCAAAAAACCAGACC CTTCTCTCGAACCACCACCACCACCACCACCACCACCACCACCACCA	(2) INFORMATION FOR SEQ ID NO:461:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:  GAATTCGGCC TTCATGGCCT AAGAAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA GTCCAAGGAA TCCACAGGCA TTGGCTGAAG TAGTCAAAAAA CACAGAGAAC TTCTTAAAAG AGAATGGTGA AAAGCTGTCA CAGGAAGATA AGGCTTTGAT TGAACCAGAAA CTTAATGAAG CTAAAGATAAA GTGTGAAACAG CTTAAATTAA AAGCAGAAAA CTTAAATGAAG CTAAAGATAAA GTGTGAACAG CTTAAATTAA AAGCAGAGACA GTCTAAAAAAG GAGCTGGGATA AAGTTGTGAC AACAGCAATC AAGGAAGAAA CACGAAGAGA TCGAAAAGACT TAGACCAGATG AAGAGAACACAAAAAACAAATA GAAAACCTTT TGGACTGGTT GTCAAATGTT GACAAAGACT CAGAAAAGGC AGGGACAAAA CACAAAACAGG TAATGGAACA GAACAGGACC CATTTTCAAG AAGGTGATGG CAAGTCAGCA ATTGGAGAAG AGGAGGAAC CATTTTCAAGA AAGGTGATGG CAAGTCAGCA ATTGGAGAAG AGGAGGAACC CATTTTCAAGA AAGAGCCCA ACATGGACCT AGGAGAATCT GAATCAGCAA TATCAGAAAG  (2) INFORMATION FOR SEQ ID NO:462:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:  GCGGCTGTGA AGATGGCGG GGCTGCGTGG CTTCAGGTGT TCCTCTGCGT TCCTGGCTGCT CCGGGACCCT ACCCGTCACC ACTGTCGTT TTCAGGTGG GACCGGCAAC CGTAGCTGCT 120 GCGGACCGGT CCAAATGGCA CATTCCGATA CCGTCGGGGA AAAATTATTT TAGTTTTGGA 180 AAGATCCTC TCAGAAATAC CACTATCTTC CTGAAGTTTT ACAATGAAAT CTATAACTTC AAGGCAGAGA AAGTAGAATAC CACTATCTTC CTGAAGTTTT ACAATGAAAT CTATAACTTC AAGGCAGAGA AAGTAGAATA CACTATCTTC CTGAAGTTTA ACAATGAAAT CTATAACTTC AAGGCAGAGA AAGTAGAATA CACTATCTTC CTGAATTTTA ACAATGAAAT CTATAACTTC AAGGCAGAGA AAGTAGAATA CACTACTCAAA ATTGTTCCAA AACTCAAGAAAACAGGA CCTTCTCTGGG AAATATCAAA CACTCATCAAA ATTGTTCCAA AACTCAAGTAAAAACAGGA CTTCTCTGGG AAATATCAAA CACTCACCAA CTGTTTTTGGAA AAAACAGGA AAAACAGGA CTTTCTTTGGA AATTTATTGCA TCGACTGCCT CTTTTTAGGAA AAAACAGGA CTTTCTCTGG AAATACAAA CACTCACTCAAA ATTGTTCCAC AACTGACTGT AACCTCTTTAA AACACAGACC TTTTCTGGAG ATTTTTATGCA TCGACTGCCT CTTTTTAGGA AAAAACAGGA CCTTCTCTTGGG AAATATCAAA CACTCACTAAA ATTGTTCCAC AACTGCAGTG AACTCTTTAA AACACAGACC (2) INFORMATION FOR SEQ ID NO:463:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl	<ul><li>(A) LENGTH: 563 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
GAATTCGGCC TTCATGGCCT AAGAAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA TGCAAAGGAG TGCACAGGCA TTGGCTGAAG TAGTGAAAAAA CACCAGAGAAC TTCTTAAAAG AGAATGGTGA AAAGCTGTCA CAGGAAGATA AGGCTTTGAT TGAACAGAAAC CTTAATGAAG CTAAGATAAA GTGTGAACAG CTTAATTTAA AAGCAGAACA GTCTAAAAAG GAGCTGGATA AAGTTGTGAC AACAGCAATC AAGGAAGAAA CTGAAAAAGGT AGCAGCAGTG AAGCAGCAATC AAGGAAGAAA CCCAAAAACCGTT TGGACTAGTT GACAAAGACT CAGAAAGGGC AAGCAAAATA GAAAACCTTT TGGACTGGTT GTCAAATGTT GACAAGACC CAGAAAGGGC AGGGACAAAA CACAAACAGG TAATCGAACA GAACGGGAC CATTTCAAG AAGGAGGCAA AACCAAAATA GAAAACCATC AGGAGAAATT TAATGGTAAC CATTTCAAG AAGGAGGCAA AACCAAGACT GAACCACTC AGGAGAACT TAATGGAACA CTGTTGAGAAA CACAAGCAGT GAACCACTC AGGAGAATT GAATCAGCAA TATCAGAAAG CTGATGTTGA TGGGCAAGT GAACCACTC AGGAGAATCT GAATCAGCAA TATCAGAAAG TTAAGGCCCA ACATGGACT GAACCACTC AGGAGAATCT GAATCAGCAA TATCAGAAAG  (2) INFORMATION FOR SEQ ID NO:462:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:  GCGGACCGGT CACAATGGCA CATTCCGATA CCCTCGGGGA AAAATTATTT TAGTTTTGGA AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAAGTTTG ATGGAGAACC TTGTGACCTC GCCGACCGGT CACAATGGCA CATTCCGATA CCCTCGGGGA AAAATTATTT TAGTTTTGGA AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAAGTTTG ATGGAGAACC TTGTGACCTC CTCTTGAATA TAACCTGGTA TCTGAAAAGC GCTGATTGTT ACAATGAAAA CTATTAACTTC AAGGCAGAAG AAGTACAGAT AATGTTCCAG AACTGAGTG AACTCTTTAA AACACAGACC TTTTCTTGGAA ATTTTTCAGA AAACTTAAGG AAAAAAAAAA	(ii) MOLECULE TYPE: cDNA	
TGCAAGGAAG TGCACLAGGCA TTGGCTGAAG TAGTGAAAAA CACAGAGAAC TTCTTAAAAG AGATTGGTGA AAAGCTGTCA CAGGAAGATA AGGCTTTGAT TGAACAGAAAA CTTAATGAAG CTAACATAAA GTGTGAACAG CTTAATTTAA AAGCAGAACA GTCTAAAAAG GAGCTGGATA AAGTTGTGAC AACAGCAATC AAGGAAGAAA CTGAAAAAGGT AGCAGCAGTG AAGCAGCACA AAGATTGTGAC AACAGCAATC AAGGAAGAAA CTGAAAAAGGT AGCACAAGACT CAGAAAGGGC AGGGACAAAA CACAAACAGG TAATCGAACA GAACGGGAC CATTTCAAG 420 AAGGTGATGG CAAGTCAGCA ATTGGAGAGA GAGGAGACA TAATCGAACA CTGATGTTGA TGGGCAAGTT GGACCACTC AGGAGAACT TAATGGACAC TATCAGAAAG CTGATGTTGA TGGGCAAGTT GGAACCACTC AGGAGAACTC TAATCGAACA TATCAGAAAG CTGATGTTGA TGGGCAAGTT GGAACCACTC AGGAGAACTC TAATCGAACA TATCAGAAAG CTTAAGGCCCA ACATGGACTC GAG  (2) INFORMATION FOR SEQ ID NO:462:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:  GCGGCTGTGA AGATGGCGC GGCTGCGTGG CTTCAGGTGT TGCCTGCAT TCTTCTGCTT  GCGGAGGCT CACAGTGACA CATTCCGGATA CCGTCGGGGA AAAATTATTT TAGTTTTGGA AAGACCACGT CACAGTACTCTC CTGAAGTTTG ATGGAGAAC TGTGACCTG CTGGGAAGGAC CCCATACCAC ACTGTCGTTT TCTGAGTGTG ACAGCACAGAC CTGACTGCT AAGGCACAGT CCAAATGGCA CATTCTCGGTT CTGAAGTTTG ATGGAGAAC TGTGACCTG CTGAAAGAATA CACATTCTTC CTGAAATTTT AACATGAAAT CTATAACCTC AAGGCACGGT CCAAATGGAT CTGAATTTTC GTGAAGTTT AACAATGAAAT CTATAACCTC AAGGCACAGT CCAAATGGAT CTTGAAAAGC GCTGATTGTT AACAATGAAAT CTATAACCTC AAGGCAGAAG AAGTACAAAA TTGTTCCAG AACTCACAGT AACTCTATAAC CTTAAACTTC AAGGCAGAAG AATTATTAGCA TCGACTGCCT CTTTTAGGAG AAAAAACAGGA CTTGTCTGGG 360 TTTTCTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAACAGGA GCTCGAGC TTTTCTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAACAGGA GCTCGAG  (2) INFORMATION FOR SEQ ID NO:463:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:  GCGGCTGTGA AGATGGCGGC GGCTGCGTGG CTTCAGGTGT TGCCTGCAT TCTTCTGCTT  CTGGGAGCTC ACCCGTCACC ACTGTCGTTT TTCAGTGCGG GACCGGCAAC CGTAGCTGCT 120  GCCGACCGGT CCAAATGGCA CATTCCGATA CCGTCGGGA AAAATTATTT TAGTTTTGGA 180  AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAAGTTGT ATGGAGAACC TTGTGACCTG 240  TCTTTGAATA TAACCTGGTA TCTGAAAAGC GCTGATTGTT ACATGAAAT CTATAACTTC 300  AAGGCAGAAG AAGTAGAGTT GTATTTGGAA AAACTTAAG AAATGAAAT CTATAACTTC 300  AAGGCAGAAG AAGTAGAGTT GTATTTGGAA AAACTTAAGG AAAAAAGAGG CTTGTCTGGG 360  AAATATCAAA CATCATCAAA ATTGTTCCAG AACTCCAGTG AACTCTTTAA AACACAGACC 420  TTTTCTTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAACAGGA GCTCGAG  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 362 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	TGCAAGGAAG TGCACAGGCA TTGGCTGAAG TAGTGAAAAA CACAGAGAAC TTCTTAAAAG AGAATGGTGA AAAGCTGTCA CAGGAGAATA AGGCTTTGAT TGAACAGAAA CTTAATGAAG CTAAAAAAAA GTGTGAAACAG CTTAAATTAA AAGCAGAACA GTCTAAAAAAG GAGCTGGATA AAGCAGAACA AACACAAATA GAAAACCTTT TGGACTGGTT GTCAAATGTT GAACAAAGAC AGCAACAAAAAA CACAAAACAG TAATCGAAACA GACAGCAGTG AAGCAGCTGG CACAAAAGAACCTTT TGGACTGGTT GTCAAATGTT GAACAAACACG AAGGGACAAAAA CACAAACAAG AAGACTGAACA GAACCGGAAC CATTTTCAAAG AAGGTGATGG CAAGTCAGCA ATTGGAGAAG AGGATGAAGT TAATCGTAAC CTGTTGGAGAA CTGATGTTGA TGGGCAAGTT GGAACCACTC AGGAGAATCT GAATCAGCAA TATCAGAAAG TTAAAGGCCCA ACATGGACTC GAG	120 180 240 300 360 420 480 540
GCGGCTGTGA AGATGGCGGC GGCTGCGTGG CTTCAGGTGT TGCCTGTCAT TCTTCTGCTT  CTGGGAGCTC ACCCGTCACC ACTGTCGTTT TTCAGTGCGG GACCGGCAAC CGTAGCTGGT 120 GCCGACCGGT CCAAATGGCA CATTCCGATA CCGTCGGGGA AAAATTATTT TAGTTTTGGA AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAAGTTTG ATGGAGAACC TTGTGACCTG TCTTTGAATA TAACCTGGTA TCTGAAAAGC GCTGATTGTT ACAATGAAAT CTATAACTTC 300 AAGGCAGAAG AAGTAGAGTT GTATTTGGAA AAACTTAAGG AAAAAAAGAGG CTTGTCTGGG 360 AAATATCAAA CATCATCAAA ATTGTTCCAG AACTGCAGTG AACTCTTTAA AACACAGACC 420 TTTTCTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAAACAGGA GCTCGAG 477  (2) INFORMATION FOR SEQ ID NO:463:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 382 base pairs  (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 477 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
CTGGGAGCTC ACCCGTCACC ACTGTCGTTT TTCAGTGCGG GACCGGCAAC CGTAGCTGCT GCCGACCGGT CCAAATGGCA CATTCCGATA CCGTCGGGGA AAAATTATTT TAGTTTTGA AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAAGTTTG ATGGAGAACC TTGTGACCTG TCTTTGAATA TAACCTGGTA TCTGAAAAGC GCTGATTGTT ACAATGAAAT CTATAACTTC AAGGCAGAAG AAGTAGAGTT GTATTTGGAA AAACTTAAAG AAAAAAAGAGG CTTGTCTGGG AAATATCAAA CATCATCAAA ATTGTTCCAG AACTTCAGGA AACTCTTTAA AACACAGACC TTTTCTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAAACAGGA GCTCGAG  (1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	(xi) SEQUENCE DESCRÍPTION: SEQ ID NO:462:	
(D) TOPOLOGY: linear	CTGGGAGCTC ACCCGTCACC ACTGTCGTTT TTCAGTGCGG GACCGGCAAC CGTAGCTGCT GCCGACCGGT CCAAATGGCA CATTCCGATA CCGTCGGGGA AAAATTATTT TAGTTTTGGA AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAAGTTTG ATGGAGAACC TTGTGACCTG TCTTTGAATA TAACCTGGTA TCTGAAAAGC GCTGATTGTT ACAATGAAAT CTATAACTTC AAGGCAGAAG AAGTAGAGTT GTATTTGGAA AAACTTAAGG AAAAAAAGAGG CTTGTCTGGG AAATATCAAA CATCATCAAA ATTGTTCCAG AACTGCAGTG AACTCTTTAA AACACAGACC TTTTCTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAACAGGA GCTCGAG  (2) INFORMATION FOR SEQ ID NO:463:  (1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid	120 180 240 300 360 420

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:463:

TAAGAG 60
ACAAAG 120
IGGCTC 180
CTACTG 240
GAACAG 300
TTCCCC 360
387

- (2) INFORMATION FOR SEQ ID NO:464:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 275 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:464:

GGACCTGCCT CAAGGACATG GGT	GGACATA TGGGCGGACT	CTCAGGGACA	ACCAAAGTGA	60
TGATCACACT GACCGATGTC AAT	GACAACC CACCAAAGTT	TCCGCAGAGC	GTATACCAGA	120
TGTCTGTGTC AGAAGCAGCC GTC	CCTGGGG AGGAAGTAGG	AAGAGTGAAA	GCTAAAGATC	180
CAGACATTGG AGAAAATGGC TTA				240
CATTTGAAAT CACAACGGAC TCT	'AAAACAC TCGAG			275

- (2) INFORMATION FOR SEQ ID NO:465:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 488 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:465:

GTTCTAGACC	TACCCCGAAC	AGCCCCAAAC	AGTCAGAGTG	GCACAAAATG	ACAGTCTCCA	60
AAAACTGCCC	CGACCAAGAT	CTCAAAATCA	AACTTGCTGT	CCGAATGGAT	AAGCCTCAAA	120
ACATGAAGCA	TTCTGGGTAT	TTATGGGCCA	TCGGTAAGAA	TGTCTGGAAG	AGATGGAAGA	180
AAAGGTTTTT	TGTATTGGTG	CAGGTCAGTC	AGTACACGTT	TGCCATGTGC	AGTTATCGGG	240
AGAAGAAAGC	GGAGCCTCAG	GAACTTCTAC	AATTGGATGG	GTACACTGTG	GATTACACCG	300
ACCCCCAGCC	AGGTTTGGAG	GGTGGCCGAG	CCTTCTTCAA	TGCTGTCAAG	GAGGGAGACA	360
CCGTGATATT	TGCCAGTGAC	GATGAACAAG	ACCGCATCCT	GTGGGTCCAG	GCCATGTATC	420
GGGCCACGGG	GCAGTCACAC	AAGCCTGTGC	CCCCGACCCA	AGTCCAGAAA	CTCAACGCCA	480
TCCTCGAG ·						488

- (2) INFORMATION FOR SEQ ID NO:466:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 300 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:466:

GAATTCGGCC TTCATGGCCT AGCCGCTGCG GTGAGCCTTG AAGCCTAGGG CGCGGGCCCG	60
GGTGGAGCCG CCGCAGGTGC AGATCTTGGT GGTAGTAGCA AATATTCAAA CGAGAACTTT	120
GAAGGCCGTC TGAGCTAAAA AATAATGCTG ATTTGGCCTC ATCATATTTA TGAAGGAGGG	180
AGAAATAGAA GCATGTATAA TGTAGAAAAA CATATCTTAT CCTTATGTTT GCATATATTG	240
TTGAATAAAT ATAGTTTAAT GAATATGTTT TCTCACCTTT CTTTGCTTGC ACTTCTCGAG	300
(2) INFORMATION FOR SEQ ID NO:467:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 381 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) TOPOLOGI: IIMear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:467:	
GTTCTAGACC TGCCTCGAGA TATGCCGGAA GGTTGCATGG CTGGTCCCAG GGCCAGCACA	
GGCCCGAGGC CGGGCTGCCT GGTTTTATTT TTATTTAACT TTATTTCTG TTTTATGAGT	60
GTGTGTCCGC CCACCCCCAC CCCCTTCAGT GTTAAGTGGG GAGCCCTGGG GGAGTCTCTC	120
CTGCCTCCCA GCCTCTCCCA AGACCTCCCC CCTCGTCACC AGCCATCCCT CTGGACCAGG	180
CAGAGGGCGG ACCGGGTGGG CAGGGGGCCTG AGGGTGGCTC GGGCCAGCCC ACCAGCCAAT	240
GGACCCCTCC TCAGGCCGCC AGTGTCGCCC TGCCCCTTTT TAAAACAAAA TGCCCTCGTT	300
TGTAAACCCT TAACGCTCGA G	360
-	381
(2) INFORMATION FOR SEQ ID NO:468:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 304 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:468:	
GCTGTCCAAT TATACTGACC TGGCCATGAG CACGGTGAAG CAGACCCAAG CCATTCCATA	60
TACTGGTCCC TTTAATTTGC TCTGTTACCA GCTGCAGAAA TTGACAGGTG ATGTGGAAGA	120
ATTAGAAATT CAAGAAAAAC CTGCTCTGAA AGTGTTCAAA AATATTACTG TAATACAAGA	180
ACCAGGCATG GTGGTATTAG AATGGCTGGC AAACCCTTCT AATGATATGT ATGCAGATAC	240
AGTAACAACT GTGATATTGG AAGTTCAGTC AAATCCCAAA ATAAGAAAAG GCGCAGAACT	300
CONO	304
(2) INFORMATION FOR SEQ ID NO:469:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 346 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:469:	
CCCATTCART TOTACACACAC CCCCCACCOCC	
GCGATTGAAT TCTAGACCAC CCCGCACTCC AGCCTGGGCA ACAGAGCAAG ACTCTTTCTT AAAAAAATTA AAAAAAAAAG GAGTACCCAT TGGGATAAAC CTCTTTGGAG GAGAGGACAT	60 120

AGTACAGAGG TTATACTGCA ACATGGACCC ACCAATAGCC ATGGATAACT TAGTTGGGAT	180
TACCCCTGCC TGCTGTTTAG ATACTTACAT GGACACTAAT TTCTGCCCAT CAACCTCCCT	240
CTCTTTCTCC TTCAATGCCC ATCAACCTCC CCCTCTTTCT CCATCAATGC TATGTTGGTT	300
TTTTTTATTT GCCATCTTGG CAGGTTTAGG GCAGAGCATG CTCGAG	346
(2) INFORMATION FOR SEQ ID NO:470:	
/:\ CECHENOR CLARACEDETCETCO	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 321 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:470:	
GAATTCGGCC TTCATGGCCT AGGATTTTCA GCAAGAATTA AATTATTCTG CATATTGGAC	60
AGGGCCTATT TAGAGGCCTG CACATCTGTT TTTATCCATT TGTGTAACGA TACCGTGTGT	120
GAAAGTAGGT TCATGGATCA GATGAGAAAA GTCAATTCTC TAAGATACCT TCCCTTGTGG	180
CTGTGGATTC TCACCTTGAT GATTCAGCTT TGTGTGATGG AGGTGTCTGC CAGAGAATTC	240
CTGGCCACCC AGCTCCTCAG CCCTCTGCCC CCACCCCCAA TACACACACC TTTCTCCATT GTACCAGATG CTGGTCTCGA G	300
FINCEAGAIG CIGGICICGA G	321
(2) INFORMATION FOR SEQ ID NO:471:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 417 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(D) TOPOLOGI: IIMedi	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:471:	
FAATTCGGCT TCATGGCCTA CTTCATTCAC TGTAAAACCA ATAGCAAACA ACGGAAGAGA CGGGCAGAGT TGAAGCAACA AAGAGAGGAG GAGGCAACAT GGCAAGAGCA GGAAGCCCCT	60
CGGAGAGACA CTCCCACCGA AAGTTCTTGC GCAGTGGCCG CCATTGGCAC CCTGGAAGGC	120 180
AGCCCCCCAG GTATCTCCAC CTCCTTCTTT AGGAAGGTGC TGGGCTGGCC CCTCAGGCTG	240
CCGAGGGACC TGTGTAACTG GATGCAGGGA CTCCTGCAAG CTGCTGGCCT CCATATCAGG	300
GACAATGCTT ACAACTACTG CTACATGTAC GAGCTCCTGA GCCTGGGGCT GCCACTCCTC	360
IGGGCGTTCT CTGAGGTCCT GGCAGCCATG TACAGGGAAT CTGAGGGCTC CCTCGAG	417
(2) INFORMATION FOR SEQ ID NO:472:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 331 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:472:	
GAATTCGGCC TTCATGGCCT ACAAGAGGCA GCTTATAGAC AACCGCAAGC TCATTGAGAC	60

180

GGGCCTGGGC CTGGCCCAGA AGGTAGATCC TGCCCAGAAG GAGAAGGAAG AGGTTGGCCA

GTGGCTCACG AATACCATCG ACACGCTCAA CATGCAGGTG GACCAGTTTG AGAGTGAAGT GGAGTCACTG TCAGTGCAGA CACGCAAGAA GAAGGGCGAC AAGGATCAGA AGCAGGACCG GATTGAGGGC TTGAAGCAGC AGCATCTCGA G	240 300 331
(2) INFORMATION FOR SEQ ID NO:473:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 260 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:473:	
GAATTCGGCC TTCATGGCCT AGAGGTGCTT CAGTGGTACA ATCAGTTAGC ACACAGTACG TATACAGCAG TATGTGTGTG AGAAATTATT TTAAATATAA GAATTATCAA AAATTATAAG AAGACCATCC CTTTAACTGA ATAGTTTCAC CAAAAATCAG AAAAATATGT AAGTGATACA TTTTGTTTCT TGGATATAGC AATGTACCAC CTTGCATAAA TGAGACTATT AAAATGATCA CCTGAGGTCA GAAGTTCGAG	60 120 180 240 260
(2) INFORMATION FOR SEQ ID NO:474:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 511 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:474:	
GAATTCGGCC TTCATGGCCT ACAAAGATTT GAGGAAAAGA GGTTCAAATT GGACCACTCA GTGAGTAGCA CCAATGGCCA CAGGTGGCAG ATATTTCAAG ATTGGTTGGG AACTGACAA GATAACCTTG ATTTGGCCAA TGCAACTCT ATGTGAGT TACTAGTGCA GAAGAAAAA CAACTGGAAG CAGAATCACA TGCAGCCCAA CTACAGATTC TTATGGAATT CCTCAAAGGTT GCAAGAAGAA ATAAGAGAGA GCAACTGGAA CAGATCCAGA AGGAGCTAAG TGTTTTGGAA GAGGATATTA AGAGAGTGGA AGAAATGAGT GGCTTATACT CTCCTGTCAG TGAGGATAGC ACAGTGCCTC AATTTGAAGC TCCTTCTCCA TCACACAGTA GTATTATTGA TTCCACAGAA AGAACCGAC CTCCAGGTTT CAGTGGCAGT TCTCAGACAA AGAAACAGCC TTGGTATAAT AGCACGTTAG CATCAAGACT GAAAACTCGA G	60 120 180 240 300 360 420 480 511
(2) INFORMATION FOR SEQ ID NO:475:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 610 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:475;	
GAATTCGGCC TTCATGGCCT AGTCACAGCT GTCTATTTTT GTCACTGTCG GAACATTGTT CATCGTGATT TAAAAGCTGA AAATTTACTT CTGGATGCCA ATCTGAATAT CAAAATAGCA GATTTTGGTT TCAGTAACCT CTTCACTCCT GGGCAGCTGC TGAAGACCTG GTGTGGCAGC	60 120 180

CCTCCCTATG	CTGCACCTGA	ACTCTTTGAA	GGAAAAGAAT	ATGATGGGCC	CAAAGTGGAC	240
ATCTGGAGCC	TTGGAGTTGT	CCTCTACGTG	CTTGTGTGCG	GTGCCCTGCC	ATTTGATGGA	300
AGCACACTGC	AGAATCTGCG	GGCCCGCGTG	CTGAGTGGAA	AGTTCCGCAT	CCCATTTTTT	360
ATGTCCACAG	AATGTGAGCA	TTTGATCCGC	CATATGTTGG	TGTTAGATCC	CAATAAGCGC	420
CTCTCCATGG	AGCAGATCTG	CAAGCACAAG	TGGATGAAGC	TAGGGGACGC	CGATCCCAAC	480
TTTGACAGGT	TAATAGCTGA	ATGCCAACAA	CTAAAGGAAG	AAAGACAGGT	GGACCCCCTG	540
AATGAGGATG	TCCTCTTGGC	CATGGAGGAC	ATGGGACTGG	ACAAAGAACA	GACACAGAAG	600
GCGGCTCGAG						610

- (2) INFORMATION FOR SEQ ID NO:476:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 409 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:476:

GGAGATTGGC	CACCTCCAAG	ATATGGTAAG	GAAAAGTGAA	CAAGGTCTTG	GCTCTGCAGA	60
AGGACTTATT	GCTAGTCTTC	AGGACTCCCA	GGAAAGGCTT	CAGAATGAGC	TTGACTTGAC	120
TAAAGACAGC	CTAAAGGAGA	CCAAGGATGC	TCTATTAAAT	GTGGAGGGTG	AGCTAGAACA	180
AGAAAGGCAA	CAGCATGAAG	AAACAATTGC	TGCCATGAAA	GAAGAAGAGA	AGCTCAAAGT	240
GGACAAAATG	GCCCATGACT	TAGAAATTAA	GTGGACTGAA	AATCTTAGAC	AAGAGTGTTC	300
TAAACTTCGT	GAAGAGTTAA	GGCTTCAACA	TGAAGAGGAT	AAGAAGTCAG	CAATGTCTCA	360
ACTTTTGCAG	TTGAAAGATC	GAGAGAAAA	TGCAGCAGAG	AAACTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:477:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 272 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:477:

GTATGCCTGT TCCAGACCAG	CCTTCATCAG	CCTCAGAGAA	GACGAGTTCC	CTGAGCCCCG	60
GCTTAAACAC CTCCAACGGG	GATGGCTCTG	AAACAGAAAC	CACCTCTGCC	ATCCTCGCCT	120
CAGTCAAAGA ACAGGAATTA	CAGTTTGAAA	GGCTGACCCG	AGAGCTGGAG	GCTGAACGGC	180
AGATCGTAGC CAGCCAGCTG	GAGCGATGCA	AGCTCGGATC	CGAGACTGGC	AGCATGAGCA	240
GCATGAGTTC AGCAGAAGAG	CGGATACTCG	AG	•		272

- (2) INFORMATION FOR SEQ ID NO:478:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 284 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:478:

GAATTCGGCC TTCATGGCCT ATGCGTGGGG GTGGGGGGGC AGGCTAGAAA GGAGCCCTCC CTCCTCGGGG TGTCTAGGGT GTGCTGGCA CTGGAAGATT GGAGTCGCTG ACCCAGTGCT GACCCTGACC CTTGGCTGGG TCCACTCTGC AGACTCCACC TGAGGAGACC CACCCAGGGT GAAGCTCGGT GCCCAGGCCT GAACTGAGCC CGGCCGGGTG CAAGGGCTGA GGTGTGAGGT CGGCCCAGGC CTCTTCCCAG GCCTGAGGGT GGCTACAGCT CGAG	60 120 180 240 284					
(2) INFORMATION FOR SEQ ID NO:479:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 352 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						
(ii) MOLECULE TYPE: cDNA						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:479:						
GAATTCGGCC TTCATGGCCT ACTAAATTTT CCAAAACGTT GATTTGCATA ATACAGTGGT ATGTGCAATG GATAAATTGC CGTTATTCA AAAATTAAAA TTCTCATTTT CTTTCTTTT TTTCCCCCCT GCTCCACACT TCAAAACTCC CGTTAGATCA GCATTCTACT ACAAGAGTGA AAGGAAAACC CTAACAGATC TGTCCTAGTG ATTTTACCTT TGTTCTAGAA GGCGCTCCTT TCAGGGTTGT GGTATTCTTA GGTTAGCGGA GCTTTTTCCC CTTTTCCCCA CCCATCTCCC CAATAATTGCC CATTATTAAT TAACCTCTTT CTTTGGTTGG AACGACCTCG AG	60 120 180 240 300 352					
(2) INFORMATION FOR SEQ ID NO:480:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						
(ii) MOLECULE TYPE: cDNA						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:480:						
GAATTCGGCC TTCATGGCCT ATTAAAAGAA TGTTCTTTCA TTAAAAGACC AAAAAGAAGT TAAAACTTAA ATTGGGTGAT TTGTGGGCAG CTAAATGCAG CTTTGTTAAT AGCTGAGTGA ACTTTCAATT ATGAAATCTG TGGAGCTTGA CAAAATCACA AAAGGAAAAT TACTGGGGCA AAATTAGACC TCAAGTCTGC CTCTACTGTG TCTCACATCA CCATGTAGAA GAATGGGCGT ACAGTATATA CCGTGTTCTC GAG	60 120 180 240 263					
(2) INFORMATION FOR SEQ ID NO:481:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 379 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						
(ii) MOLECULE TYPE: cDNA						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:481:						
GGAGCAGGAA GAAATGCAAG AGGAGATGGA GAAGCTGCGA GAGGAAAACG AGACTCTCAA	60					
GAACGAGATC GATGAGCTGA GAACCGAGAT GGACGAGATG AGGGACACTT TCTTCGAGGA GGATGCCTGT CAACTGCAGG AAATGCGCCA CGAGTTGGAG AGAGCCAACA AAAACTGCCG	120 180					

240

GATCCTGCAG TACCGCCTCC GCAAAGCCGA GCGCAAAAGG CTCCGCTACG CCCAGACCGG

GGAAATCGAC GGGGAGCTGT TGCGCAGCCT GGAGCAGGAC CTCAAGGTTG CAAAGGATGT

ATCTGTGAGA CTTCACCATG AATTAGAAAA TGTGGAAGAA AAGAGAACAA CAACAGAAGA

300

TGAAAACGAG AATCTCGAG	379
(2) INFORMATION FOR SEQ ID NO:482:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 301 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:482:	
GAATTCGGCC TTCATGCTTT CTAGGCAAGA GGTCATCAGA AGATTGAGAG AAAGAGGAGA ACCAATCAGA CTATTTGGAG AGACTGATTA TGATGCTTTT CAACGTTTAA GGAAAATAGA GATCCTCACA CCAGAAGTTA ACAAGGGATT GAGGAATGAT TTGAAAGCAG CCTTGGATAA GATTGATCAG CAGTACCTCA ATGAAATCGT CGGCGGTCAG GAGCCTGGAG AGGAAGACAC ACAGAATGAT CTGAAAGTTC ATGAGGAAAA CACCACAATT GAAGAGTCAG AGGCCCTCGA	60 120 180 240 300 301
(2) INFORMATION FOR SEQ ID NO:483:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 168 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:483:	
TGGTCTCCAG AAATGCTTTG GGTTCATCTT TCATTGCTGC AAGGAACTTC CATGCCTCTA ACACTCATCT TCAAAAGACT GGGACTGCTG AGATGTCCTC TATTCTTGAA GAGCGTATTC TTGGAGCTGA TACCTCTGTT GATCTTGAAG AAACTGGGCT ATCTCGAG	60 120 168
(2) INFORMATION FOR SEQ ID NO:484:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 452 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:484:	
GCAAGCTCTC CATGGAAACC CCTGCCAAAA CAGAAGAGAT AAAACTGGAA AAGGCTGAGA CAGAGTCCTG CCCAGGCCAA GAGGAGCCTA AATTGGAGGA ACAGAATGGT AGTAAGGTAG AAGGAAACGC TGTAGCCTGT CCTGTCTCCT CAGCACAGAG TCCTCCCCAT TCTGCTGGGG CCCCTGCTGC CAAAGGAGAC TCAGGGAATG AACTTCTGAA ACACTTGTTG AAAAATAAAA AGTCATCTTC TCTTTTGAAT CAAAAACCTG AGGGCAGTAT TTGTTCAGAA GATGACTGTA CAAAGGATAA TAAACTAGTT GAGAAGCAGA ACCCAGCTGA AGGACTGCAA ACTTTGGGGG CTCAAATGCA AGGTGTTTT GGATGTGCA ACCAGTTGCC AAAAACAGAT GGAGGAAGTG	60 120 180 240 300 360 420 452
AAACCAAGAA ACAGCGAAGC AAAGGACTCG AG	452

# (2) INFORMATION FOR SEQ ID NO:485:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 352 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:485:

GTTTGTAAAT	CACCTGATGA	TGGTGATATA	GCTGTGGCCA	ACGAAATGTC	AAGGGAAGTC	60
TGCTGGGGAA	GGTAGACGTA	GGATAGGAGT	ATGGGAAAAA	ATTATTCACT	CAAAAGCATG	120
ATGCACAGAG	GAGCTATGAT	CTTTTCTTGT	TTTCCTCACT	GGATGTTGTC	ATGTCTGTAT	180
GTACTTCCTG	GAACTGTGGC	ACCATCTTAC	AACCATGAAA	GGAGCTCACA	TGAAATCATG	240
TTGAACATAG	CAGAGCUGGA	AGATGGAAGG	AATCCGAGAT	CTATGTTTGA	TGTTAAGCGA	300
TGATGTTAAA	AACTTAAAAA	ACTCCAGAAC	TCTCTTACCC	CTGGTGCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:486:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 420 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:486:

GAATTCGGCC	TTCATGGCCT	ACTCAGCTGG	AAGCTTTACT	CCCTCCTCGA	CAGAAAGTGA	60
GGATTACAGA	TGACATGGAT	CAGGTGGAGC	TGAAGGAGTT	TTGTCCCAAT	GAGCAGAACT	120
GGCGTCAGCA	CAGGGAGGCC	TACGAGGAGG	ACGAAGACGG	GCCCCAGGCT	GGAGTGCAGT	180
GCCAGACGGC	ATGACGTGGT	GCGGGGCAGC	GTGGCCCCAC	CGGACTAGCA	CATGATGAAT	240
GTAAAGTTGG	CACAATGAAA	ATGACATCGC	TTTAATGGCC	TTGTGTTTGG	GATGTCCTGT	300
GTATGTGTTC	AGCATTCTTA	ATTGCTGAGT	GTCTTTTTGG	CTTTTCTTTT	GGTTGTAACT	360
TAAGTTATAG	CTTAATTTAT	ATTTAAATGT	TTTAAGTATA	AATCACCTCT	AGGCCTCGAG	420

- (2) INFORMATION FOR SEQ ID NO:487:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 318 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:487:

GGAGTGTCAA	GAATAACCGC	TCAGGTTGAG	TGTAAAAATA	TTTTATGGTC	CCATCAGCAT	60
CAACCTGCCT	TAATGCTTCT	TTGGTTGTCT	CTTCAGCTAG	TTCTTATTTT	ACAGCACATG	120
ATATATGAAG	TGATTTCACA	CCATGCCCAA	GATACGGGCC	ACCCACCAGC	TACATGGCAT	180
GATGACTCTG	CAGGCCGAAC	GGCAGCCTTG	ATAATTATAA	GGCCATGGGT	AATAGCCCCC	240
CAGGGGTTCA	CAGATCTTCT	GGCAGTGGGT	GTAGCTCCGC	CTACATTCTA	TACAACAGAT	300
TCCTTCGCCT	GCCTCGAG					318

(2) INFORMATION FOR SEQ ID NO:488:

(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 487 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:488:	
ACTACTACAA AGTAGATACT CTGTTCTCAA CTTGTTTTTT TCACTGAAGT TATCCTTCTT	TATTAATCAA ACATTTAAGA GCAACTCAGT AAGTATTTGT CCAGAATGAA GACTAGGTTT ACTGCTTGAC ATTAGAGGTT AAGGTGTTGC AATTCTGAGT ATTACTACCA ACCCCCACCC CCGCCGATAT TACTTCATCT CCCTCCAAGG TTTTCATAAC TATTTTAACA GATATTGCAA TAAATGTACA GTAATTTAAC GCTGGGCATG TCAAAGTGTT TTCTATTATT ACAGATAATG CTGCAATGAA TATAATACAC TTTTATCCAG TTGTCATTTT TTCTTTGTCT TATATTCTCA	60 120 180 240 300 360 420 480 487
(2) INFORMA	ATION FOR SEQ ID NO:489:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 149 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:489:	
AAAAAATAAA	CTGAAAGGAA AATTGTTGAA TGTTTGAATC TTGCCTAGTC CCCTCACCCC	60 120 149
(2) INFORMA	ATION FOR SEQ ID NO:490:	
(i) .	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 259 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:490:	
TTTCTCCCAC AATGATGTTT	CTGAAGATTT ATTCATTTTT CCTTTATTCC TTTTTATTCT GTTCCTCAGC TCAATGCACA TATCCTCAAG TTTGCTGATT CTTTCATTTC CTGCTCAGAT	60 120 180 240 259
(2) INFORMA	ATION FOR SEQ ID NO:491:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 320 base pairs  (B) TYPE: nucleic acid	
	253	
	253	

- (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:491:

GAATTCGGCC	TTCATGGCCT	ACAAATGTTT	AATCAGAGAC	TCATATTCAC	CTTTAAGTAA	60
AAAACATACT	TCTTTCCCCC	TAATAGTCAC	AGCATTCTGC	AGAGCTAAAG	AAGGAGACCA	120
GGAGTCTGTG	GGAGCAAAGA	TCATTTTGTG	AAGCTAGAGG	TCCAATTTAA	AAGCAGTTGC	180
TGCTACAAAT	TAAAACATAT	TTGCATTCTG	CCTAAAATAG	TTGTCTCTTT	GAACGTTGGG	240
TGCCTTTTTT	AGGTTGCTTT	GTGAATAATA	TGCACAAAAT	GAAAATGTTA	AAAAAAACAT	300
	AACCCTCGAG			0.00001101111	THURWICKI	
						320

- (2) INFORMATION FOR SEQ ID NO:492:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 224 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:492:

GAATTCTAGA	CCTGCCTCCA	GCCACTTCAA	ACCTTTGGTG	ACCAAAGTGG	GGTAAAAACA	60
					TTAAGAAGTT	120
TTTCTTGAGG	TGGTCAGTTC	TTAAACCAAG	AAAGTGGTAG	TAGTTGATTT	TAATTAGTGT	180
AAAGTTGTCT						224

- (2) INFORMATION FOR SEQ ID NO:493:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:493:

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- (2) INFORMATION FOR SEQ ID NO:494:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 504 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:494:

GAATTCGGCC	TTCATGGCCT	AGGTAGCTCT	ATGGTTTTCC	TCGCGTTCTT	GAGTCGGGAA	60
ATGGCCGCTG	TGTGGTTGCA	ACGGAGATAA	ATTCCCGGAA	CCGCGATTCG	GCGTGTCAGG	120
AATTCGAATT	TAGAGTTTAA	TTTCTCAGAG	CATTCTCTCC	AGGAAGAATT	TTTACAGTAT	180
CTCAAAGACT	TCACTTGACT	TCTTGATCCT	GCATAAAACC	AAGGAGAAAA	GAAATGGGTC	240
GCTCCAATTC	TAGATCACAT	TCTTCAAGGT	CAAAGTCTAG	ATCACAGTCT	AGTTCTCGAT	300
CAAGATCAAG	ATCTCATTCT	AGAAAGAAGC	GATACAGTTC	TAGGTCTCGT	TCCAGAACAT	360
ATTCAAGGTC	TCGTAGTAGA	GATCGTATGT	ATTCTAGAGA	TTATCGTCGC	GATTACAGAA	420
ATAATAGAGG	AATGAGACGA	CCTTATGGGT	ACAGAGGAAG	GGGTAGAGGG	TATTATCAAG	480
GAGGAGGAGG	TAGAAACCCT	CGAG				504

- (2) INFORMATION FOR SEQ ID NO:495:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 190 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:495:

GAATTCGGCC	TTCATGGCCT	ACCAACTTAG	TCATTTGAAG	CCCAAGAGTC	TAATTTTATA	60
TGCCCTGCCA	ATGTCCTCAT	CTATTGCAGA	ATGNATAATT	ATCTATTTGT	TTTGGACTAT	120
ATGTTACAAA	AATTTAAAAC	ATAAGATCCT	CTCTCTATAT	TTCATTATTG	GTGAACCCAC	180
ATTGCTCGAG						190

- (2) INFORMATION FOR SEQ ID NO:496:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:496:

GAATTCGGCC TTCATGGCC	AGGTAAGAAA	ATCGTCAATG	AATTGTGGCA	TGACCAGGTG	60
GAGAGTAAGT GTCATAAAG	GGGATAGTGG	ATAGTATAAT	GTCAGGCACC	TCAAAGGAAC	120
TGGGCAGGGA GTTAGGGAG	AAAAAGGGCG	GTGGTCTGGA	AGCAGAAAGG	AGGAGCAGTG ·	180
GTCCAGTAGG GGCTGCAGAG	CTGCAAGGCT	TTGCCTCAAT	CCTGTCAAAG	GCAACTTCAA	240
GCTTTCCAGG AGCCATACT	CTTCATTTGT	TCATTACTTT	CTAGATTAGG	AAATCACCAC	300
TCGAG					305

- (2) INFORMATION FOR SEQ ID NO:497:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 334 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:497:

GAATTCGGCC TTCATGGCCT AGGTGGACCA ATGTACAGCA CTCAGGTTCA TGGCCAACTG GGTGGACTAT TTCAGTACTC TACAGGTGCC TCAGTGAGG GAGAGCCCAT TGTCCAGGTG CTTCCTGGGA CAATACCAGA GCGCTCTGGG AAAAGGGCTG CTTGCAGGCA CGAGGGCTCA CAATGAGCCA TGGTGGGCCA CCGCCACGGC CCATGCAGCC TAATAGCAAG CCAAGGCAGG AAGCTGTGAG ACCTCAAAG GCAGATTTCT CGAG	60 120 180 240 300 334
(2) INFORMATION FOR SEQ ID NO:498:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 160 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:498:	
GAATTAGGGG CTTTTCATC CTTAGGAGAC CTGAGTCCTC AAGAAAACCC TTTTCTGGAA GTATCTGCTC CTTCAGAACA TTTTATAGAA AAGAATAATA CAAAACACAC AACTGCAAGA AATGCCTTTG AAGAAAATGA TTTTATGGAA AACACTCGAG	60 120 160
(2) INFORMATION FOR SEQ ID NO:499:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 276 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:499:	
GAATTCGGCC TTCATGGCCT ACTCGATCTC CTGACCTCGT GGTCCACCCG CCTCGGCCTC CCAAAGTTCT GGGATTACAG ACGTGAGCCA CCGCGCCCGG CCTTGTCCTG GATTTTTAA CCAAGCACTA TTATTTATAG TTGCGTTAAA ATAAATAGGG ATGGGTTTGA TAAGTCACCA CTTGGTGCTT TAAATTCTGC CATCATCTTT TCTAGGAGTG TAAGATATAG AGATACACAT AAGCAGAAAA TTTTTTTTAA CATGAGGATA CTCGAG	60 120 180 240 276
(2) INFORMATION FOR SEQ ID NO:500:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 256 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:500:	
GAATTCGGCC TTCTGGCCTA GACCTGCCTC TGATATGTAC TTGGTTTTTA AAAACCCATT TTGTTCTCTC TTGTTTCCTC TCTATTTCAG CCTAGTATCA GAAGGCCAGG CGAGACTGCA ACACTGCTCA TCACCCCGCG GCGTGATCCC TGCTCTTAGG TGCTGGGCAG AGGGGAAGGG TGGTCAGGGT GAGGATGGTG AGGGAGGGCT GGTGAGGGC TCAGAGGAAT ACTTGGAACA ACAGCAGTGT CTCGAG	60 120 180 240 256

- (2) INFORMATION FOR SEO ID NO:501:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 635 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:501:

GAATTCGGCC TTCATGGC	CT AGTGGTTTTG	TTGTTGTTGT	CGGAGACAGG	GCCTCGCTTG	60
GTCTCCCAGG CTAGAGTC	CA GTGGCATGAT	CACGACTCAC	TGCAGTCTCG	ACCTTCTGGG	120
CTCAAGTGAT CCTCCTGT	GT CAGCCTCCCA	CACAGCTGGG	ACTACAGGCA	CATGCCACCA	180
CATCCAGCTA ATTTAAAA	AA CATTTTTTT	GTAGAAATAG	GGTCTTACCA	TGTTGCCCAG	240
GCTAGTCTCA AATTCCGG	GG CTCAAGCAAT	CCTCCCACCT	CACCTTCCCA	AAGTGCTGGG	300
ATTACAGGCA TGAGTCAC	CA TACTTGGCCC	GAGTGAGCCA	AGATTGCACC	ACTGCACTCC	360
AGCCTGGGCT ACAGAGCA	AG ACACTATCTT	AGATCCNNAA	AGGAAAAAA	AAAAAGAAGG	420
AGAAAGAACC AGAGAAAC	CAT AAGGAAGAGT	GAGAGGAAGA	AAGAAAGATG	CAATTTGGGA	480
AGAAATGAAA AAGAAATG	AA TAAAGAATAA	AATAATGTAA	CGGTCAATAA	ATAGGACTTG	540
TGAATGGAGG CCTTTAGG	CC AAAGGCTATG	ATTAATTTCA	AGCTATGTTA	CTGAAGTCCA	600
TAAACAAAGG ACTCAGAT	CT AAATGGGTAC	TCGAG			635

- (2) INFORMATION FOR SEQ ID NO:502:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 452 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:502:

GAATTCGGCC	TTCATGGCCT	ACCCGTAGAA	ATCCCCCTTT	CTCTAATAGC	GAGGCTCTAA	60
CCACACAGCC	TACAATGCTG	CGTCTCCCAT	CTTAACTCTT	TGCCTTTGCC	ACCAACTGGC	120
CCTCTTCTTA	CTTGATGAGT	GTAACAAGAA	AGGAGAGTCT	TGCAGTGATT	AAGGTCTCTC	180
TTTGGACTCT	CCCCTCTTAT	GTACCTCTTT	TAGTCATTTT	GCTTCATAGC	TGGTTCCTGC	240
TAGAAATGGG	AAATGCCTAA	GAAGATGACT	TCCCAACTGC	AAGTCACAAA	GGAATGGAGG	300
CTCTAATTGA	ATTTTCAAGC	ATCTCCTGAG	GATCAGAAAG	TAATTTCTTC	TCAAAGGGTA	360
CTTCCACTGA	TGGAAACAAA	GTGGAAGGAA	AGATGCTCAG	GTACAGAGAA	GGAATGTCTT	420
TGGTCCTCTT	GCCATCTATA	GGGGCGCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:503:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:503:

GAATTCGGCC TTCATGGCCT ACAAAATTGT CTTGACATAA GTAATTTGGG TATGCTGTAT 60
AAAGGCTTCT AAGAATTAAG AAACATGGCC CGGGTTGCAA ATTTTAATGC ATGACTACCT 120

(2) INFORMATION FOR SEQ ID NO:504:

TTTTTTCTAT AGAATATAGC TTTTGTCAGA TTCTCAGCAG TGGCTCTGAT CCAGAAAACA

TTAAGAACCA CTGGTCATGA GTGGTGATTT TCAGCTTTTT TGGTCTTAAC CCACTTAGGT GGGACAGAAG CTCCTTATCT CACCTATACC ATCCAGCATC CTCGAG

180

240

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 424 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:504:	
GAATTCAGCC TTCATGGCCT AGAGGGGTTT AGGATTCAAA GCAAAGGGGA GACAGCTACT AAGTAAACTA CAAAATAATT GCTAAACTGA AAATTGTATA AAGTGTACTG GACAGATGAT GTTCCTAATT CTTATCCATG AAATATTTCT TGCCTTCTTA GAGGAAATAG CACCTGACAC AACACTAGCC ACATTGTAGG TGATCAATCA GCACATGTCT AAATAAATTA ATTAAAAAAG AATCAATTAG AAATTCCACT GAAAATTCTT CTTAAATATA ACCAACTTCA TTATGACAAG CTATGAATAT AGAGCTTACA TACATGTTAT ATATCAATAT GTGAGTAGAT AAAGAATGAA TGCCTTAAAAT TGTTGGATTT TTTATTGTTT TTGTTCTTGT TTTGGAGATG GGGTCTCACT CGAG	60 120 180 240 300 360 420 424
(2) INFORMATION FOR SEQ ID NO:505:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 204 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:505:	
TOTAL COMMON COM	60 120 180 204
(2) INFORMATION FOR SEQ ID NO:506:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 218 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:506:	
GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGAGA TGTACAGTAA TAAGTATGCA CAGAAATGTT AGATTATTT TGAAGATGTG GAGAAACTAC TGTTATTTTT GCTTATATTC TTCTCTAAAA ATTCACTAAA TGAATAACAG TTATTGGTTT TGCTATTCAA GATAATTATA AAAATATCTA TTATAGCTAA TCTTCACATG AACTCGAG	60 120 180 218
258	

	2)	INFORMATION	FOR	SEO	ID	NO:50	07	:
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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 352 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:507:

GAAGTTTAAC ATTTCAACTG TTGGTAAAAT CTCCCTGGTG CCACCTTGTC GCACCCCCT	60
GTTATGAGGC ACAGTTAGTG GGTTTATGAG AGGTTTGTTC AGTGAAGCTC CTGCCACTGT	120
AGACCTAAAT GTTTCTCCC CTGTTGAAGT GACCTGCCTT CCTCTTTAGT ACCTAACACA	180
GTTGGCAAAG AGCATGGCTA ACTCAAACCC TTTTCTTTGG GGGCAGGCTT CCCTTTCTCT	240
CTGGCAGGTA TATTAAAAAA TTACAAAATA GTAAATTTGC CAAATTTTTC TTGGTGTGTA	300
GCAAGGCATA AAGACTGAAA AATATCTTAT GAATTAGTTC ACTTCCCTCG AG	352

- (2) INFORMATION FOR SEQ ID NO:508:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 283 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:508:

GAATTCGGCC	TTCATGGCCT	AAAATGATAC	AGTGTGCAGA	ACTGGACCCA	GTAGGGAATG	60
ATAAAATGTA	CAGATGTGCA	GAACAGGACT	TGGTAGGACT	CAGCAGAGAA	AACAGGAGGA	120
GAGATGAAAA	TGATATGGTG	TGCAGAACTG	GACTCAGTAA	GGTGCGGAAA	GGGGAAGGAT	180
TCTGACAGAA	TCCAGCACAA	AAACAGAGAG	GGTGCAGAAA	AAGAGATTTG	GTCACTTAGA	240
CGTGTGGAGT	TGGAGGAGCC	TGTGGGAAAT	CCAGGATCTC	GAG		283

- (2) INFORMATION FOR SEQ ID NO:509:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 325 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:509:

GAATTCGGCC	TCATGGCCTA	CTCTCCTTTC	TTAACTTGTG	TACTTGGGGG	CACTTTTGAT	60
TTTGGTCCCA	CATCATTGAG	GAAGCTGGCC	CAGAGTTCGT	CCTCCTTCTT	TTTCCTGGCA	120
TCCTCTGATC	CAATGCCTTT	TTCCTGCTCT	GCAGCGTCAT	CTTCCTCCTC	ACTACTGCTT	180
CCCTCAGATT	CTGAATTGGC	ATCCTCCTCT	TCCTCTTCTT	CTAATGAGAG	GCCACCTTGT	240
CTTCTCTTCC	TGGCTGGAAT	GCTCTGGGCC	TTTCTTTTTT	TCCCTTGGGT	TTTCTGTGTC	300
TGCTCTTCAC	CATTAGGCCA	TGAAG				325

- (2) INFORMATION FOR SEQ ID NO:510:
  - (i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 281 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:510:	
GAATTCGGCC TTCATGGCCT AGACAGGAGG TCATTGGGGA TTTTAGAAGG TTACACTGGA TACATTTCCA TTAAGCTTCA CGATATCCCA CAGGTCCATT CTGTGTAAAA TGGTCTAAAA ATTTCCTGTT CTCATGCTTC ATTTTTTCT TTTAGTAATA TTCCTAATTG TGTAAAATAG TATTTCTTTT CATTTATCTT AATTATGTTA TATTAAGATA TCATGTGTAT GCTTAAATTA TACTTTTGGG CTTCAAATGA GTGACCCCAC TCAGACTCGA G	60 120 180 240 281
(2) INFORMATION FOR SEQ ID NO:511:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 250 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:511:	
GAATTCGGCC TTCATGGCCT AATTCCCTTG ACTCAAGACA GCTAACTTCA TTTTCAGAAC TGTTTTAAAC CTTTGTGC TGGTTTATAA AATAATGTGT GTAATCCTTG GATACCAGAC TGTTTCCCGT GGTTGGTTAG AATATATTTT GTTTTGATGT TTATATTGGC ATGTTTAGAT GTCAGGTTTA GTCTTCTGAA GATGAAGTTC AGCCATTTTG TATCAAACAG CACGCTCGAG	60 120 180 240 250
(2) INFORMATION FOR SEQ ID NO:512:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 233 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:512:	
GAATTCGGCC TTCATGGCCT AATTGATTCT AATCTTTCCC AAACAGTGCT GTGGCAATGT ATGAAAGTAA TAAAAATAAT CCTTTTTCTG TTAAAAAAAA AATTGCTGTT ACTTGCTGTT TTGTTATGCT TTTGCTGGAG ATTTTCCCAC CCATCTTAAA GCAGCAACTT CAGGATGGGG GAATCAAGCA AAACCATGGT GAAGAGATTC ATTTAAAGAG GACAAGTCTC GAG	60 120 180 233
(2) INFORMATION FOR SEQ ID NO:513:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 358 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:513:

GAATTCGGCC	TTCATGGCCT	AGTCACCTTT	TGTGGGAACT	TCTCTCAGCG	AAGCGGAGCA	60
					AAAGAGCTCC	120
					GAGCGACACT	180
ACATTTGGTG						240
GGTGATGGCT						300
CCCATCTGTG	GACCACAGCA	GTGCCTCTCA	ACAAACATGT	GCCCCAAGGA	GTCTCGAG	358

- (2) INFORMATION FOR SEQ ID NO:514:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 337 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: CDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:514:

GAATTCGGCC	TTCATGGCCT	AGAATAGAGG	AAAATAGCCG	CCTGGTGGCT	AGACAATTTA	60
GGTGTAGAAA	ACACATTTAT	ATGGTTCTTT	GAATGTAACA	GTGGTAAAGA	ATATAGGTTT	120
AGTTGTTGCT	GCTAAGTAGG	GGGAAATGAC	ATTTTTATCT	GGTATGTTTG	AGAATAAAGT	180
AAATTTCAAA	ATTTGAGATG	ATCGAAGTTT	TTATTTATAA	ACTTAAGTAT	TATTATAATA	240
TGTTACATAT	TTTATTCTTT	AAAAATTGTA	ATTCAGAGAG	TGTAACAAAA	TGTACTTCCT	300
CACTTTCTTG	CTTTTTGTTT	CCCAGAAGTA	ACTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:515:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 366 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:515:

GAAAAGATGG	AAGAAAACCA	CCATAGCACT	GCAGAAGAAC	TACAGGCTAC	TCTACAAGAA	60
TTATCAGACC	AGCAACAAAT	GGTACAGGAA	TTGACAGCTG	AAAATGAGAA	GCTGGTGGAT	120
GAAAAGACGA	TTTTAGAGAC	ATCCTTTCAT	CAGCATCGAG	AGAGGGCAGA	GCAGCTAAGT	180
CAAGAAAATG	AGAAGCTGAT	GAATCTTTTA	CAAGAGCGAG	TAAAGAATGA	AGAGCCCACC	240
ACTCAGGAAG	GAAAAATTAT	TGAACTGGAG	CAGAAGTGCA	CAGGTATTCT	TGAACAGGGC	300
CGCTTTGAAA	GAGAGAAGCT	ACTCAACATT	CAGCAGCAGT	TGACCTGTAG	CTTGCGGAGA	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:516:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 329 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:516:

GCGAGTGAGC	CGGGGTAGCA	TCACCTCACT	CCAGCCTAGG	TGATGACAGA	GTTAGATTTT	60
GTCTCAAAAA	AGAAAAAGAA	AACAATTCCA	${\tt GGATTATTAT}$	TTCTACGTAA	ATGTGACATA	120
TTATTTCTAT	GATATTATTT	CTTTGATCTC	GTAGCCACAC	TGTTCCCAAT	AATGATTATG	180
AGAAAAAGTA	CCCTCTGTTT	GAAGGCAATC	ATGGGGAAAA	TATAATTCAC	AAAGTATTTT	240
AAAATTAAAA	TCCTGTGTAT	TTCAAAAGAC	GATGGTCCTA	TTTTAAGAAA	AATAACCTTG	300
CAATTCATTT	GCTTTTTCAT	TGGCTCGAG				329
	GTCTCAAAA TTATTTCTAT AGAAAAAGTA AAAATTAAAA	GTCTCAAAAA AGAAAAAGAA TTATTTCTAT GATATTATT AGAAAAAGTA CCCTCTGTTT AAAATTAAAA TCCTGTGTAT	GTCTCAAAAA AGAAAAAGAA AACAATTCCA TTATTTCTAT GATATTATTT CTTTGATCTC AGAAAAAGTA CCCTCTGTTT GAAGGCAATC	GTCTCAAAAA AGAAAAAGAA AACAATTCCA GGATTATTAT TTATTTCTAT GATATTATT CTTTGATCTC GTAGCCACAC AGAAAAAGTA CCCTCTGTTT GAAGGCAATC ATGGGGAAAA AAAATTAAAA TCCTGTGTAT TTCAAAAGAC GATGGTCCTA	GTCTCAAAAA AGAAAAAGAA AACAATTCCA GGATTATTAT TTCTACGTAA TTATTTCTAT GATATTATTT CTTTGATCTC GTAGCCACAC TGTTCCCAAT AGAAAAAGTA CCCTCTGTTT GAAGGCAATC ATGGGGAAAA TATAATTCAC AAAATTAAAA TCCTGTGTAT TTCAAAAGAC GATGGTCCTA TTTTAAGAAA	GCGAGTGAGC CGGGGTAGCA TCACCTCACT CCAGCCTAGG TGATGACAGA GTTAGATTTT GTCTCAAAAA AGAAAAGAA AACAATTCCA GGATTATTT TTCTACGTAA ATGTGACATA TTATTTCTAT GATATTT CTTTGATCTC GTAGCCACA TGTTCCCAAT AATGATTATG AGAAAAAGTA CCCTCTGTTT GAAGGCAATC ATGGGGAAAA TATAATTCAC AAAGTATTTT AAAATTAAAA TCCTGTGTAT TTCAAAAGAC GATGGTCCTA TTTTAAGAAA AATAACCTTG CAATTCATT GCTTTTCAT TGGCTCGAG

- (2) INFORMATION FOR SEQ ID NO:517:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 368 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:517:

GAATTCGGCC	TTCATGGCCT	AGTCCTTTCA	AGTACACAGA	GAAATTTTGC	TTGAATTTCT	60
GGAGGAAGAG	TCCAGGGTTC	GGGAAAAGGG	ACTGGGTGGT	ATCTATCTGG	GGCCCCAGAC	120
AGCGGCACTT	CTTTCTTCTG	TGCTGGAATT	CGGCGAACAA	TCATATCATC	TTTTTCCAAA	180
TCCGGAAGTA	CAAGTTCACC	TTCTCTACAC	TGTAAAATTA	TATCTCGCTC	TACAGAATCA	240
TCTTGCTCAG	AGAACTTTCT	AAAGTCTTCA	AAAGCTCGGA	GAACATATGG	ATTTGCATGG	300
AAAGCCCCAG	TCTTTCTGAC	AAAGAAATCA	TCATTCTCTA	AGTCAGGATC	CAGGGCTGCC	360
ATCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:518:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 397 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:518:

GAATTCGGCC	TTCATGGCCT	ACGCTGAGAT	CAAGATTCGG	AGTTTGGGCT	GCCTAATAGC	60
TGCAATGATA	CTGTTGTCCT	CACTCACCGT	GCACCCCATC	TTGAGGCTTA	TCATCACCAT	120
GGAGATATCC	TTCTTCAGCT	TCTTCATCTT	ACTGTACAGC	TTTGCCATTC	ATAGATACAT	180
ACCUTTCATO	CTGTGGCCCA	TTTCTGACCT	CTTCAACGAC	CTGATTGCTT	GTGCGTTCCT	240
TGTGGGAGCC	GTGGTCTTTG	CTGTGAGAAG	TCGGCGATCC	ATGAATCTCC	ACTACTTACT	300
TGCTGTGATC	CTTATTGGTG	CGGCTGGAGT	TTTTGCTTTT	ATCGATGTGT	GTCTTCAAAG	360
AAACCACTTC.	AGAGGCAAGA	AGGCCAAAAA	GCTCGAG			39 <b>7</b>

- (2) INFORMATION FOR SEQ ID NO:519:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 640 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:519:

GAATTCGGCC	TTCATGCCTA	CTTTGGTAAC	AGAAGAGAAG	ACTGTGGAGC	CAGCTACCGT	60
CTCAGAAGAA	GCAAAGCCTG	CATCTGAACC	TGCTCCTGCC	CCTGTGGAAC	AGCTGGAACA	120
AGTAGACCTG	CCCCCAGGAG	CAGACCCCGA	TAAAGAAGCT	GCCATGATGC	CTGCGGGTGT	180
TGAGGAAGGT	TCATCAGGTG	ACCAGCCGCC	TTATCTGGAT	GCCAAGCCTC	CAACTCCCGG	240
GGCCTCGTTT	TCCCAGGCAG	AGAGCAACGT	AGATCCAGAG	CCTGACAGTA	CCCAGCCACT	300
TTCAAAACCA	GCTCAGAAGT	CTGAGGAAGC	CAATGAGCCA	AAGGCCGAAA	AGCCAGACGC	360
CACTGCAGAT	GCTGAGCCTG	ATGCAAACCA	GAAAGCCGAA	GCTGCTCCTG	AGTCTCAGCC	420
CCCAGCTTCT	GAAGATTTAG	AGGTTGATCC	TCCAGTTGCT	GCAAAGGATA	AAAAGCCAAA	480
CAAAAGCAAG	CGTTCAAAGA	CCCCTGTTCA	GGCAGCTGCA	GTGAGTATCG	TGGAGAAGCC	540
CGTCACAAGG	AAGAGTGAGA	GGATAGACCG	GGAAAAACTC	AAGCGGTCCA	ATTCTCCTCG	600
GGGAGAAGCA	CAGAAGCCTT	TGGAATTAAA	GACACTCGAG			640

- (2) INFORMATION FOR SEQ ID NO:520:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 469 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:520:

GAATTCGGCC	TTCATGGCCT	AGCAAGAGAA	AGAGAAGTGC	AAACACTCCC	ACGGCGAAGC	60
GCCCTCCGTG	GACGCGGATC	CCAAGTTACC	CAGTAGCAAG	GAGAAGCCCA	CTCACTGCTC	120
CGAGTGCGGC	AAAGCTTTCA	GAACCTACCA	CCAGCTGGTC	TTGCACTCCA	GGGTCCACAA	180
GAAGGACCGG	AGGGCCGGCG	CGGAGTCGCC	CACCATGTCT	GTGGACGGGA	GGCAGCCGGG	240
GACGTGTTCT	CCTGACCTCG	CCGCCCCTCT	GGATGAAAAT	GGAGCCGTGG	ATCGAGGĢGA	300
AGGTGGTTCT	GAAGACGGAT	CTGAGGATGG	GCTTCCCGAA	GGAATCCATC	TGGATAAAAA	360
TGATGATGGA	GGAAAAATAA	AACATCTTAC	ATCTTCAAGA	GAGTGTAGTT	ATTGTGGAAA	420
GTTTTTCCGT	TCAAATTATT	ACCTCAATAT	TCATCTCAGA	ACGCTCGAG		469

- (2) INFORMATION FOR SEQ ID NO:521:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 202 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:521:

GAATTCGGCC TTCATGGCCT	ACCCGTTTCC	TCTAGTTTCT	TCCTGTAGTA	CTCCTCTTTT	60
AGATCCTAAG TCTCTTACAA	AAGCTTTGAA	TACTGTGAAA	ATGTTTTACA	TTCCATTTCA	120
TTTGTGTTGT TTTTTTAACT	GCATTTTACC	AGATGTTTTG	ATGTTATCGC	TTATGTTAAT	180
AGTAATTCCC GCGGCCTTCA	TG				202

- (2) INFORMATION FOR SEQ ID NO:522:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 492 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:522:

GAATTCGGCC	TTCATGGCCT	AAATTTAATG	AAGCAAAATT	CCATACATCA	TTTTGAAAAT	60
AGTGTTTCTT	TCCCTGATAG	GCCTGTTCTG	CATCATTCTT	TTAGCTTCCT	TCTGCCCTGT	120
TTATCACTTG	GTCCCACTTT	TATATTTTC	CTCTTCGGTC	CAGAATTTCT	TATTTAGTTT	180
CTTGTATTTT	GCCTACTCCC	TCCCTTCTCC	ATGATTCAGC	CTAGTCTTTC	CGTCCTCTGT	240
GGACTTGGGT	GTGCCTTCCT	CTGGGCCACC	TCGTCTTTTG	CTGCTGTTAG	CCCTCCCGCC	300
TGCGCACCTG	CCACTTCACC	CTCGCCTGTG	GTCCACTTAC	GTTCCACTCA	GCCCGGTCAG	360
TCCTGCTTTG	TTCTTCTCCA	CCGCCTTGGT	CTCCCGTGTG	TCTTATCTAG	CTCTGGTTCC	420
TTCTCGTCTC	CACATTTATT	TTGTTTTCTT	CCTGTGCTTG	TTAGTCCTTG	TGCACTTGGC	480
CCTTTTCTCG	AG					492

# (2) INFORMATION FOR SEQ ID NO:523:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 394 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:523:

TTCATGCCTA	GGAAATTTCA	CCATTTGGTC	TCCCCCTTTG	TGGGTCAGCA	60
ACAGGGGGCA	GCAGTAAGAA	GCTACAGCCC	GCCAGCCTGC	AGTCTCTGTG	120
ACCCAGGTCC	ATGGAAAGAA	ATTATTCCTT	AGATTTGATC	TAGATGAAGA	180
CCTGGCAGCA	GCCCAACACC	AGAGCCTCCA	CAAAAAGAAG	TGCAGAAGGA	240
GACCCAAAGC	AGGTCGGGGA	GCCCAGCGGG	CAGAAGACCC	TTGATGGATC	300
GCAGAGCTCG	TCCCCCAGGG	CGAGGATGAT	TCTGAGTATT	TGGAGAGAGA	360
GGAGATGCTG	GGAGGTGGCT	CGAG			394
	ACAGGGGCA ACCCAGGTCC CCTGGCAGCA GACCCAAAGC GCAGAGCTCG	ACAGGGGGCA GCAGTAAGAA ACCCAGGTCC ATGGAAAGAA CCTGGCAGCA GCCCAACACC GACCCAAAGC AGGTCGGGGA GCAGAGCTCG TCCCCCAGGG	ACAGGGGCA GCAGTAAGAA GCTACAGCCC ACCCAGGTCC ATGGAAAGAA ATTATTCCTT CCTGGCAGCA GCCCAACACC AGAGCCTCCA GACCCAAAGC AGGTCGGGGA GCCCAGCGGG	ACAGGGGGCA GCAGTAAGAA GCTACAGCCC GCCAGCCTGC ACCCAGGTCC ATGGAAAGAA ATTATTCCTT AGATTTGATC CCTGGCAGCA GCCCAACACC AGAGCCTCCA CAAAAAGAAG GACCCAAAGC AGGTCGGGGA GCCCAGCGGG CAGAAGACCC GCAGAGCTCG TCCCCCAGGG CGAGGATGAT TCTGAGTATT	TTCATGCCTA GGAAATTTCA CCATTTGGTC TCCCCCTTTG TGGGTCAGCA ACAGGGGGCA GCAGTAAGAA GCTACAGCCC GCCAGCCTGC AGTCTCTTG ACCCAGGTCC ATGGAAAGAA ATTATTCCTT AGATTGATC TAGATGAAGA CCCTGGCAGCA GCCCAACACC AGAACAAAAGAAG TGCAGAAGGA GACCCAAAGC AGGTCGGGA GCCCAGCGGG CAGAAGACCC TTGATGGATC GCAGAGGCTCG TCCCCCAGGG CGAGGATGAT TCTGAGTATT TGGAGAGGA GGAGATGCTG GGAGGTGGCT CCGAG

### (2) INFORMATION FOR SEQ ID NO:524:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 600 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:524:

CGATTGAATT	CTAGACCTGA	CCAAAGACCT	TCCGTACAGA	TTGACCGCAG	AATGTCAGGG	60
AAAGTTAGGA.	GAAGAAGTTC	TGAGAAGACT	GACTACAGAT	TGGCTGGCCT	GGCTGACCCA	120
GGAACTTCTG	AGCAGACTGA	CCTCAGATTG	TATGGCCTCG	TTGACCACAA	AACATCTGTA	180
AAGACTCACC	ACCAAGTGTA	CGGCCAAGCC	ACTGAACTAG	CTGAACACCA	GGCTATTGAC	240
CAAGCTCATA	GTAATGCTGA	TCAACCTCCA	GTTGACAATG	CTCACTACAC	TGAATCTGAC	300
CAGACTGACC	ACTTAGCAGA	CAGACAAGCT	AATCATAAAG	ACCAGCTGTC	TTACTATGAA	360
ACACGTGGCC	AGTCTGAAGA	CAGAATATTT	CCCCAGTTAG	GCAACAGCAA	AGAGGACAAA	420
GAGGCTGACT	ACAGAGTACA	ACCCTGCAAA	TTTGAGGATA	GCCAAGTAGA	CCTCAATTCC	480
AAGCCTTCAG	TTGAAATGGA	AACTCAGAAT	GCAACCACTA	TCCCACCCTA	CAACCCAGTT	540
GATGCCAGAT	TCACCAGTAA	ATTCCAAGCA	AAAGACCAAG	CTCTTTTCCC	AAGACTCGAG	600

- (2) INFORMATION FOR SEQ ID NO:525:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 466 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:525:

GAATTCGGCC	TTCATGGCCT	ACTTTCTTCT	GCTGGCTTCC	ATCTTGCCAC	ACTTTCTTGC	60
TCTTCCTTCT	AACTGAAAGA	CTACTTCTCC	ATCCCCTCTG	CAGGCTCTTT	TGCTCCACCT	120
GATATTTAAA	TGTTGGAATG	CCTAGAGTTG	TTCTGACCCT	TCTTTATCTA	CCCCGATTTC	180
${\tt CTCAGTGATC}$	${\tt TTATGCAGAG}$	GTCTCCCAAA	${\tt GTTTACATGG}$	CTATCCTTGA	CCTCCTTCCT	240
GAACTGCAGC	TGGTGTCAGC	TGCCGTCACT	TGGATGTTTA	ATCAGCAACT	CAAGGTTTAC	300
GTGATGATTA	GACCGCAGTT	ACCCCCAGAC	TTCCTTATCC	CTTAGTTTTC	CCCATCTCAT	360
TAAGTTCACT	TCCATTCACC	TTCTTGATGA	AGCCAAGTAT	TTCAGAACTA	GCCTTGTTTC	420
TTCTTTTTCA	CTTTCCCCCA	TATCAATTCC	AGACTACCCA	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:526:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 559 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:526:

GAATTCGGCC TTC	CATGGCCT ACATTGTAG	GA AGAGATCACA	GAAACCACAA	AAGGTTTTCT	60
GAAGTATATG GAT	CADTTTAD TAADTAA	AC TGAAAGTCAG	GAAGGAGTTG	GTTTGGGACA	120
TTCACCTTCA TCC	CTATGTGA ATACTAAG	GA AATGCTAACC	ACCAATCCAA	AGACTGAGAA	180
ATTTGAAGCA GAG	CACAGACC ACAGGACA	AC TTCTTTTCCT	GGTGCTGAGT	CCACAGCAGG	240
CAGTGAGCCT GG	AAGCCTCA CCCCTGATA	AA GGAGAAGCCT	TCGCAGATGA	CAGCTGATAA	300
CACCCAGGCT GCT	IGCCACCA AGCAACCA	CT CGAAACTTCC	GAGTACACCC	TGAGTGTTGA	360
GCCAGAAACT GAT	TAGTCTGC TGGGAGCC	CC AGAAGTCACA	GTGAGTGTCA	GCACAGCTGT	420
TCCAGCTGCC TCT	IGCCTTAA GTGATGAG	IG GGATGACACC	AAATTAGAGA	GTGTAAGCCG	480
GATAAGGACC CCC	CAAGCTTG GAGACAAT	GA AGAGACTCAG	GTGAGAACGG	AGATGTCTCA	540
GACAGCACAA GGG	CCTCGAG				559

- (2) INFORMATION FOR SEQ ID NO:527:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 318 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - . (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:527:

GAATTCGGCC	TTCATGGCCT	ACGCAGTGGT	TCAATTTTCT	TCGAAACGGT	GTGGTCCCTG	60
CAAAAGGATG	TTTCCTGTTT	TCCATGAGCT	GGCTGAAACT	TGTCACATCA	AAACAATACC	120
CACATTTCAG	ATGTTCAAGA	AAAGCCAGAA	GGTAACCCTA	TTCTCAAGAA	TCAAAAGAAT	180
AATTTGCTGT	TATAGAAGTG	GATTCATGAG	CAACCTGATT	TTTGAGTTTT	GTGGAGCCGA	240
TGCTAAAAAA	TTGGAAGCCA	AGACTCAAGA	ATTAATGTAA	GCTGATCTCC	AAGGCAAAAT	300
ACACTTGTGC	CGCTCGAG					318

- (2) INFORMATION FOR SEQ ID NO:528:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 276 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:528:

GGCACAGACT	TACCGGACAC	ACAGGTCATG	GGACACAGAG	TCATGGGGCA	CACAGGTTCA	60
CAGGGCACAC	AGGCTCACGG	GACACAGAGT	CATGGGACAC	ACAGGCTCAC	AGGGCACACA	120
GGCTCACAGG	ACACACAGGT	TCATGGGGCA	CAGAGTCATG	GGGCACAGAC	TCACAGACTC	180
ACAGGTCATA	GACGCTCATG	GGGCGCAGGC	TCACAGGGCA	CACAGACTCA	GGGCACACAG	240
GCTCATGGGG	CACAGAGTCA	TGGGGCAGGG	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:529:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 180 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:529:

GAATTCGGCC	TTCATGGCCT	ATTCTGTTCT	TTAAATTTGA	ATGAAAGTTT	GGCATTTTAA	60
AAAACTTTAG	GTGATTTAGG	AGTATAATTT	TAAGCAGATT	TTTAGAGTAC	GAGTGTCCAC	120
ATATTTAACT	AAACATTCAA	AAATTAGTTA	AAATCAATGA	ACTTGGGAAG	GATCCTCGAG	180

- (2) INFORMATION FOR SEQ ID NO:530:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 470 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:530:

GGGGACAGAA	GATGTGCTCC	AGGGTCCCTC	TGCTGCTGCC	GCTGCTCCTG	CTACTGGCCC	60
TGGGGCCTGG	GGTGCAGGGC	TGCCCATCCG	GCTGCCAGTG	CAGCCAGCCA	CAGACAGTCT	120
TCTGCACTGC	CCGCCAGGGG	ACCACGGTGC	CCCGAGACGT	GCCACCCGAC	ACGGTGGGGC	180
TGTACGTCTT	TGAGAACGGC	ATCACCATGC	TCGACGCAGG	CAGCTTTGCC	GGCCTGCCGG	240
GCCTGCAGCT	CCTGGACCTG	TCACAGAACC	AGATCGCCAG	CCTGCCCAGC	GGGGTCTTCC	300
AGCCACTCGC	CAACCTCAGC	AACCTGGACC	TGACGGCCAA	CAGGCTGCAT	GAAATCACCA	360
ACGAGACCCA	GGCCCTTCAG	CACCGTTCAC	AGTATTTTGA	AGGTGTTGTG	AAGTGCAATA	420
AGCTGGAAAT	ACTGGAGACC	ATCGTGGACA	GAATAGTAAG	AGCCCTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:531:
  - (i) SEQUENCE CHARACTERISTICS:

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:531:

GAATTCGGCC	TTCATGGCCT	AGAAAATTCC	AGAAAGGATA	TTTAAGAAAA	TACAATAAAC	60
TATTGGAAAG	TACTCCCCTA	ACCTCTTTTC	TGCATCATCT	GTAGATACTA	GCTATCTAGG	120
TGGAGTTGAA .	AGAGTTAAGA	ATGTCGATTA	AAATCACTCT	CAGTGCTTCN	TACTATTAAG	180
CAGTAAAAAC	TGTTCTCTAT	TAGACTTTAG	AAATAAATGT	ACCTGATGTA	CCTGATGCTA	240
TGGTCAGGTT .	ATACTCCTCC	TCCCCCAGCT	${\tt ATCTATATGG}$	AATTGCTTAC	CAAAGGATAG	300
TGCGATGTTT	CAGGAGGCTG	GAGGAAGGGG	GGTTGCAGTG	GAGAGGGACA	GCCCACTGAG	360
AAGTCAAACA	TTTCAAAGTT	TGGATTGTAT	CAAGTGGCAT	GTGCTGTGAC	CATTTATAAT	420
GTTAGTAGAA	ATTTTACAAT	AGGTGCTTAT	TCTCAAAGCA	GGAATTGGTG	GCAGATTTTA	480
CAAAAGATGT .	ATCCTTCCAA	TTTGGAATCT	TCTCTTTGAC	AATTCCTAGA	TAAAAAGATG	540
GCCTTTGCTC	GAG					553

- (2) INFORMATION FOR SEQ ID NO:532:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 843 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:532:

GAATTCGGCC	AGAGAGGCCT	ACTTCTCTTA	GTGATTTCAT	GTTTCAACCA	GTACATTGTG	60
GTGAATACTG	AAATATCTTG	TTTAATTCAG	ATAATTAAAA	TGGTGGCAAA	GGAAGCTGTT	120
TAGCCAGAGC	CCTTCTTGAC	TTTGAGGAAC	AGTGGTAGTA	TAAGACTTGA	AGACAGACGT	180
GTAAAAAGTA	CTACTCACTG	GTAGGCTCAG	GTCTGGTTGA	TTGACTGATT	CTTGAGACGG	240
AATGTCGCTC	TGTCGCCTAG	GCAGGAGTGC	AGTGGCCCAG	TCTCGGCTCA	CTGCAGCCTC	300
CGTCTCCGGG	TCCAAGCGAT	TCTCCTGCCT	CAGCCTCCCG	AGTAGCTGGG	ACTACAGGCG	360
CCCGCCACCA	CACCGGGCTA	ATTTTTGTAT	TTTTAGTAGA	GACGGAGTTT	CACAATATTG	420
GTCTCGAACT	CCTGACCTCA	GGTGATCCAC	TCGCCTGGCC	CACCCAAAGT	GCTGGGATTA	480
CAGGGATGAG	CCCCTGCGCC	TGGCCTCGGT	TGAATTTATT	AAACAACTTT	TGTGGGCAGC	540
AAGCTGTACG	AGGTTAACTA	TGTGATGAGA	AGACTTAGAA	ATGGAGAAAA	GTTTTATCAG	600
TTCTACATAG	GACTTAGTTT	GGGAGTTTCT	GGAAACTACG	TTGGAAATCA	GTAGTTGCAC	660
ACTAGCTGAA	TTCAGCTGTG	TAATTTACAG	TGATTTGTTA	TTTACCAAAT	AAGTAGAAGA	720
GGGAATTAAG	AAGCTAAAAT	CTCTGGGTAC	TTGTTTGATA	TGAATTTGTT	AATTGTTTAT	780
ACTCAGGTAA	TAAGTGTTAC	CTCAGTCATA	GCATTTAATA	TTTTATCTGA	CTGTCCTCTC	840
GAG .						843

- (2) INFORMATION FOR SEQ ID NO:533:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 525 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:533:

AAAGAGCCC AAAGAGGCCT ACATCCAGAA ATTTAGGGAC TCAGCCCTGG TCAGGGTGGC AAAGGGTCTG TTTGTCTTTC CCCATTAGAC AGAGGTCTTG TCCTGCTACC CTAATTGTAA AGGGGTGCCT GGGAAGGGGT GGTAGGGACA TGGTGGCGGT GGAGACTCCG GCCCACTTC CCCAGGCTTT GCTGACAGGG GCCTGCTTTT AATTTTTATT TTTATTCCAT GACTTTTTAA AAAAGAATCC CGTAACTTCT TTTTCATAAC TTTTTTTGTA ACTTTTCATA ATACTGTTTT CTACTTTGTT CCCACAAGTT TTTTTGCCAC AACGTTTTTA CATTTTTTAT CCCATAACTT CTTCACCCCA TAACTTTTTT AAATAAAGTT ATTTAATAAA ATAACTTTT ATAAAACTTT AATAAAAGTT TTTTAATTAA CCCATAACTT TTTTATTTTG GTTTTTTAATA AACACTTGCA CAGTTATATT ACAACTTTGT AAAAATGAAA CACATTATCT CAGGC	60 120 180 240 300 360 420 480 525
(2) INFORMATION FOR SEQ ID NO:534:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 268 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:534:	
GAATTCGGCC AAAGAGGCCT AGAAAACCCT TGAAGACATG TTGAAAATAC ATACTCCTGT CAGCCAAGAA GAAAGATTGA TTTTCTTAGA CTCCATTAAG TCCAAATCCA AAGACTCTGT CTGGGAAAAA GAAATAGAAA TACTTATAGA GGAAAATGAG GACCTCAAAC AACAATGTAT CAGCTAAAT GAAGAGATTG AAAAGCAAAG GAACACTTTT TCATTTGCTG AAAAAAACTT CGAAGTTAAC TATCAAGAGT TACAAGAG	60 120 180 240 268
(2) INFORMATION FOR SEQ ID NO:535:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 224 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:535:	
GGCTTGCACC TCGGCGATCC CCGACTCCCT TCTTTATGGC GTCGCTCCTG TGCTGTGGGC CGAAGCTGGC CGCCTGCGGC ATCGTCCTCA GCGCCTGGGG AGTGATCATG TTGATAATGC CCGGAATATT TTTCAATGTC CATTCCGCTG TGTTGATTCA GGACGTTCCC TTCACGGAGA AAGATTTTGA GAATGGCCCC CAGAACATAG ACATTCCTCT CGAG	60 120 180 224
(2) INFORMATION FOR SEQ ID NO:536:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 303 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:536:	

60

120

GAATTCGGCC TTCATGGCCT ACCACTCTGG CCCCAGCGTC ACTGGCCTAG GGACACATGG

GGGTGGGGAT TGTTTGGCCT TCCTGGCTTA GGTCTCTGGA AGAGAAGA ACCCCATGGG

GTGAAGCCAC	GCCACGGGCA GTACATGCCT CCCACACTAC TGACACCGCC ACCTTTGAGCAA CGGAAAGGAA GGGGGATGGG CAAGATCAGT GGGGGCTGGCC TTCTGCTGGC ATGAGAGGGC CAGGCCGCCC C	CAAGGTTGG CAGCTCCTC	180 240 300 303
(2) INFORMA	ATION FOR SEQ ID NO:537:		
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 350 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:537:		
AATATTTTCC TTTTTTTTT AGGCCAGAAT TCGAAAGGTG	TTCATGGCCT AGAACAAAAT CTGAAATTCA GAAATAAACA AA ATTTTTTTCC CTATTAAATA TGATAATTC AGGTGCAAAG AA TTTCTCCACA GTGCTTTTCA CGGTGGGGAC TAATGGATAT AA AACCAAGTAC CTGGAAGTGA ATCTTTGTGG AGATAATGAA AA CAAAAGGAAG TCTTCCATCA CTAGCTCAGC TGTTATGGTC C CTGTCTTTTT ATTAATCCTT TTTACCTGTC GAGTCTCAGG	GTGTTTTT GAGGGTGGG TAATTTTAT TTGAACTGC	60 120 180 240 300 350
(2) INFORMA	ATION FOR SEQ ID NO:538:		
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 344 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:538:		
TCATCCTCAC CCTTATGATC ATTCGCCACA TCCACCCACG	TTCATGGCCT AGAGTTGCAC AGATGTCTTT TGTTAGCTTT GAGACCGTTAC TCAGATAATT AAGTGCCTTG CAAATTTAGT AGTCTAAAACT CAGCCTGCTG ACCAAAGTCT GGAACCAGAT AAGATGTTAA TGTTCGTGTG TCAAGTCTCA CACTCTTGGG ACACCTTTACC TGAAGTCCAA CTACTTCTGC AACAGCCATG TGCAATTCAGC AACCCCTCAC CTCAGCCCCT CGAG	TCAAATGCA AAGCCTTAT AGCTATAGTG TCTTCTGGA	60 120 180 240 300 344
(2) INFORMA	ATION FOR SEQ ID NO:539:		
	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii)	) MOLECULE TYPE: cDNA		
(xi)	) SEQUENCE DESCRIPTION: SEQ ID NO:539:		
TTCAGCCATG	TTCATGGCCT ACAACTCCAT TAAACCACCA CCAGCTCCCC A AAGTTCCTGC TCCTGGTCTT GGCAGCCCTC GGATTCCTGA C	CCCAGGTGAT	60 120 180

TTGCCACTGG GGGGAGACAG CATTGTTCAT GTGCAACGCT TCCAGAAAAT GCTGCATCAG

GAGAAGAAAC ACACAAAGGA AAGACAAGAA GCAACCCCTC GAG

CTACTCCTTC CTGCCGAAGC CTGACCTACC ACAGCTCATC GGTAACCACT GGCAATCAAG

300

(2) INFORMATION FOR SEQ ID NO:540:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 248 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:540:	
GCGATTGAAT TCTGAAGACC TCTCAGCCTC TTATGACCAC TCCTGGCACC CTGTCAAGCA CAGCATCTCT GGTCACTGGC CCTATAGCCG TACAGACTAC AGCTGGAAAA CAGCTCTCGC TGACCCATCC TGAAATACTA GTTCCTCAAA TCTCAACAGA AGGTGGCATC AGCACAGAAA GGAACCGAGT GATTGTGGAT GCTACCACTG GATTGATCCC TTTGACCAGT GTACCCACAA ATCTCGAG	60 120 180 240 248
(2) INFORMATION FOR SEQ ID NO:541:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 433 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:541:	
GAATTGGCCT TCATGGCCTA GATTGTCTTT ATAGGAAATG TCTTTAGCAA AATACTACGG GTTCTATAAA ACCCATTAAC GGGTTATCAG TGTCTAGGAC ATAAATGGCT TCTGGTAAGA AAATTAAGGT CTACTCTCCC TAAATACTAT CATAATTACA AAGGTTAAGA AAAAAGAAGT AGAGTAAAAC ATGTGTCCCT TAAAAATCAA ACATGAGTG TCACAAGGTC CTAAGAAGCA GAGAATGAGA ACTCCAGTTG CTTGTTTATC TCTCAGGCTG AGCATGGTTG GTTACAATGA GGGGTAGCAG GAAGAGCACA GCCTTGGACT CCAGTCCAAG GAACTCCAGT CTCTCCTGCA ATTTCCCAGT GTTTGACCTT GGGCCACTTA CTGTTCCTTT CTCAGCCTC ATTTTCATAT CTAAAACCTC GAG	. 60 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:542:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 493 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:542:	
GAATTCGGCC TTCATGGCCT AGACACGGGA CATAAAAACT TTTAATGAAG GAGGACACAG CTCAGAGCCC TTCCACATGC GGCCCAACCC TGCCCCACGG AGACCGGCCA AGACCGCC CCGATCTTCT TCTGCCAGTT GGCGATGTCC TTGGACACGG CGCACCACAG CTCCCCATGC CGAGGCTCT CACTCTCACA GCGCTTCCTC ACCTCCTCT GCTGCTCCTC AGTGCCATGC TGCAGCTCAA	60 120 180 240 300

PCT/US98/06956 WO 98/45437

ACTTGTAGAA GAAGGCCCAG GCATCCCCCA GGTCCGAGTC AATCTTCACA GTGCGGTGGA ACCACTCCCT GGCCTTGGTG ATCTTCCGCT GACTCCAAAA CAGCTTGGCC ACGGCCAGGA GCACATGGGG GTCATGCTCA CACTTCTTCA GGGCATCCAC GCTCTTGGTC CTCCTCTGGG GCCTTGCCTC GAG	360 420 480 493
(2) INFORMATION FOR SEQ ID NO:543:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:543:	
GAATTCGGCC TTCATGGCCT AGTCAGGGAG AAGGGAAGGT GAGAAGGGGG GGAAAAAAGA AGCAAAAAGC CCAAAGAAAA AAACATTTTA TATTCATCTG TATAAACATA TCCGCTAAGG CAAACGCAAT CCGGGTCCGA GGCTGCTGC TGCCTCCTAA TTTCTGCAGA TTCTAAGGCC AAAAAATAAA ACCTCTGCAA GTCCGCGTAG CTTCCAGGAC TCCTGGGCAT TTTACTAAAA TAAAGAGTTA TGAGGTTTAA AAAGCAGTGA CGTCGTTATG ACACACACTG AAAGTTGCAT AACTGTGGCC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:544:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 473 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:544:	
GAATTCGGCC AAAGAGGCCT AAGAATTCCT TATGAAAGTG ATGCTTGAGT CAAAATATGA TGGATGAAGA GAGTTTAAAT AGATTACATA GAATTTTAA TAATGTCGAT TGGTTATATA CTGGGCACTG ATAGCTGATT TTTCTTTGGG GAAAGGTATG TCAGCCTAGT CATTCAGATT CCTTTATTTT TTTAAATGTT TTTTCATTTT TTGCTTTCCA TTGCATTCAT TTGCTGAAGA GCTGGCTTGT ACTTTGGCAG GTGTCATACT TGGTTATTCT CCTTAGGATA TTGGCCCAAC AATCTGGGAT TTGTGAAAGG CGCTTCGCTT TCAGACCTG GGCGTCTGTA TCATGACTAT CATAAATTTA GGATTAAGAC ACCTAGCCTC CTACCAGGAT GAATGAGGTG TCCATGTGAC CTGCTGTGCC CTGGAATTTT ATACATCTTT CTCTCATAGC ACACGGACTC GAG	60 120 180 240 300 360 420 473
(2) INFORMATION FOR SEQ ID NO:545:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 120 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:545:	
GAATTCGGCC AAAGAGGCCT AGTCGAGAAG GAAGAGAGAAAAAC TATAAAAGTG TGCTAAATGT TTTATTTTCT CTGGAAGAAT AGTTATATTC TACTCTTTGT GGCTCTCGAG	60 120

- (2) INFORMATION FOR SEQ ID NO:546:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:546:

GCTAGACCTG	CCCCCTTAGA	AATGGAAAAA	GCATGCAAGA	GAGATGTTAA	AGGAGACTAT	60
TGGAGCAACT	GTGTCCACAC	CCTCTGTGAT	AGAAATGGAA	AAAATATCCC	CAGAAGATCG	120
TGGTGAGAAT	ATTGGGAAAC	ACAAAGTGTT	ACCCGCAGTG	GTAGACATTG	AGAAAATACA	180
TGGAACAGGA	CTAGAATTGA	CCACTAAACA	AGGGGAGGCC	ATGCTTCCTG	CATTTGAAAG	240
TAAAACACCA	CAAGAGTATG	CTGAAGGGAG	TGTTGAAGAA	ACAATGGAAA	ATACTTACCA	300
AAAGGATGCT	GAAGGGGATA	TTGGAAAGGC	TGAAGTGATG	CCTGTGAGGT	TAGAAATGGA	360
AAATACTTAC	CCAAAGGATA	CTGAAAGAGA	CGGTGGCAAA	ACTGAGGTGA	TGCCCCTTGC	420
ATTAGAGGTA	GTAAATACTT	ACCAAAAAAA	TGCCAAAGGT	TTTACCGGGA	ACAATCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:547:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 405 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:547:

GAATTCGGCC	AAAGAGGCCT	AGAAACCTGA	GGCTGCTGCC	CTTTATCTGC	CTTCACGGTA	60
CTGTCCCCTT	CCCCCAGCTC	CTCCCTGACC	CCATGGGCCA	GGCCTCAGAC	CTTCCAGCTA	120
ACCGCTTCCC	ATGAGCCACT	ACTCTGATGT	CAGCCTATAA	CCAAAGGAGC	TGGGGGGTCC	180
AGGCCTGGTG	ACCAACCTTT	CTCAGCCCAC	TCAATCAGGG	TGCTCCCCAC	CTGCAGGCAG	240
GAGGCAACAC	CCTATCTGCT	ACCATCAGCC	CCTTCCAGAG	CCCATCTGCC	CCGCCCAGCC	300
CTGCCCTGCC	CAGCCATACC	CTGCTCTGCC	CCATCTGGGG	GTGCCCTGCT	CAGGGATGGG	360
CTGGCAGGGC	TGTACCCAGC	CTCCCTGGTA	AGCAAAGAGC	TCGAG		405

- (2) INFORMATION FOR SEQ ID NO:548:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 142 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:548:

GCGATTGAAT	TCTAGACCTG	CCTCCCTGCT	TTCTAATAAA	TCTGACTAAC	CTTAGACATT	60
TTGTATCTTA	CTAAGAACAT	CCCTTCAATA	TCTACTTCAT	TATCCCATGC	CATTTCCCCA	120
CTGTCTCAAC	ACGAATCTCG	AG				142

(2) INFORMATION FOR SEQ ID NO:549:

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(A) LENGTH: 296 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:549:	
GAATTCGGCC TTCATGGCCT ACTATGGTAT TGCTAAACAA GGGTGGGAGG AGAGAGAGGT	60
AATCAGGGAG GACTTCCCAC AGGAGGTGGC ATCTGCAGAT GTCTCAAAAA AGAAAAGAAT TAGCCTGGCA AGAGGTGAGG ATTGTGTAGA GGTCACTCAC TTTCCTTGTG GGTGGAGGAA	120 180
ACCATTCCAG GAGCTGTAGG AAGCTTGGTG CTGGTGAAGG AGGCAGGAGA GGAGAGAAGA	240
GGAGATGACC TTAGAAATCA CATCCAAGAG CCTCTGATCC CAGGAGGCAG CTCGAG	296
(2) INFORMATION FOR SEQ ID NO:550:	
(i) OPOURNOR CUADACTERICO.	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 254 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:550:	
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CONCOLOR AND MICHAEL MICHAEL AND COMPANY CO. AND COMPANY CO.	
GCAGGAGAG AAATTGAGGC TTAGGTTAAG AAACTTACCC AAAGTCAAAC AATTTAATTG GTTTGGGAAG ACCAGGAAGA CTTTAAGTTC CTAAGATCGT TTGAGATTCT GCATCAGGGA	60 120
ACACTTGACA GCAGGTTTAT ACAAAGACAG ATTTGGTATC TTTGGAGGGA ATGAGTTTCC	180
AGTCATTGCA GGTGGTCCAG CAGAGAGGGC CACTCTCCTT TTTTTCTTTC TTTACTCCCT	240
TTTTGATTCT CGAG	254
(2) INFORMATION FOR SEQ ID NO:551:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 278 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:551:	
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AGGCCATGAA GGCCCTTTCC ATTTCTTTTT GTTCCATCAC TCTTCTCTCA ACCTGTGTTT CTTTTTTTAC TGAGGAGTTA GTCCCCATTA GTTCTTGTAT CACATTTTCA TTTGCACGAC	60 120
ATTACTCGCA GGTGGTGGG AGCCTGGGCT TTTGGGGAAC CAGGCTGCTC TGGTCCCCAG	180
CATTGCCTCC TCCTAGCCCC TCTAGTCCAG TTTGCCTCCC TTACCCTCAT TTTCCAAACC	240
TCTTGTACCC TCCTCTCCT CCCCCAGCTG GCCTCGAG	278
(2) INFORMATION FOR SEQ ID NO:552:	
(4) CROHENCE CUADACTERICTICS.	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 322 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:552:

GAATTCGGCC	TTCATGGCCT	ATGCACTTCT	TCTTTCTCTC	CTCCTTTTGC	TGGGTGCTTA	60
CCGAGGCCTG	GCAGTCCTAC	CTGGCTGTCA	TTGGGCGGAT	GCGCACCCGC	CTCGTTCGCA	120
AGCGCTTCCT	CTGCCTGGGC	TGGGGTCTGC	CTGCCCTGGT	GGTGGCCGTG	TCTGTTGGCT	180
TTACCCGAAC	GAAAGGATAC	GGTACATCCA	GCTACTGCTG	GCTCTCCCTG	GAGGGCGGCC	240
TGCTCTACGC	CTTTGTGGGC	CCTGCAGCCG	TCATTGTCCT	GGTGAACATG	CTCATCGGAA	300
TCATCGTCTT	CAGCAGCTCG	AG				322

- (2) INFORMATION FOR SEQ ID NO:553:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 390 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:553:

GCCAAAATCA	AGCAAAGTAT	GAAGAAAGAT	AAAGAAGGGG	AAGAAAAAGG	GAAGCGAAGA	60
GGATTCCCCA	GCATCCTGGG	ACCCCCACGG	AGACCAANCC	GTCATGACAA	CAGTGCAATT	120
GGCAGAGCCA	TGGAACTACA	GAAGGCGCGC	CACCCTAAGC	ACTTATCCAC	ACCCTCATCT	180
GTGAGTCCTG	AACCTCAGGA	CTCTGCCAAG	TTGCGCCAGA	GTGGGTTAGC	AAATGAAGGA	240
ACAGACGCTG	GATACCTGCC	TGCCAATTCC	ATGTCTTCTG	TAGCTTCAGG	GGCCTCTTTT	300
TCCCAGGAAG	GAGGGAAAGA	GAATGATACA	GGATCAAANC	AAGTTGGAGA	AACATCAGCA	360
CCTGGAGACA	CCTTAGATGT	CACCCTCGAG				390

- (2) INFORMATION FOR SEQ ID NO:554:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 306 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:554:

GACGGCTACA	CCATGGGCCG	GCTGCTGCGG	GCCGCCCGGC	TGCCGCCGCT	GCTTTCGCCG	60
CTGCTGCTTC	TGCTGGTTGG	GGGAGCGTTC	CTGGGTGCCT	GTGTGGCTGG	GTCTGATGAG	120
CCTGGCCCAG	AGGGCCTCAC	CTCCACCTCC	CTGCTAGACC	TCCTGCTGCC	CACTGGCTTG	180
GAGCCACTGG	ACTCAGAGGA	GCCTAGTGAG	ACCATGGGCC	TGGGAGCTGG	GCTGGGAGCC	240
CCTGGCTCAG	GCTTCCCCAG	CGAAGAGAAT	GAAGAGTCTC	GGATTCTGCA	GCCACCACCA	300
CTCGAG						306

- (2) INFORMATION FOR SEQ ID NO:555:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 327 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:555:

GAATTCGGCC	TTCATGGCCT	ACCCTCTCAC	GCCACCCCCG	CCCCCACCGG	GCTGCAGGTG	60
CTGCTGATGC	GCTGGGATCT	GATTGAGGAT	AAAAAGGAAG	GAGAGATGAC	CCCTACCCCC	120
TCATCCCCCA	GTTTTGAAAA	GGTCTAAGCA	AGTGAGTCTG	GTGGAGGAGC	TGAGGGAGGG	180
AGCCATGGAA	GGTGCCAGAA	GGAAGGTTGG	CGGGGGCACG	TGTGGGCCGT	GGCTTGGGCT	240
GGTCAGAGTG	GCGTGAGCTG	CCCGGCGCCT	GCCCTGCCCA	AGTGACCAGG	GAAGTGTGTG	300
TGTGTCCATG	TGTATGCGTG	GCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:556:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 272 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:556:

GAATTCGGCC	TTCATGGCCT	AGAGAAGGAG	CCAGCTGGGG	CCGAATCCAT	CCGCTTGAAC	60
ACCAAAGAAG	ACAAAAATGG	TGTCCCCGAC	TTAGTGGCCC	TGCTGGCTGT	GAGAGACACC	120
CCGGACGAGG	AGCCGGTGGA	CAGCGACACT	TCGGAGAGCG	ACTCGCAGGA	AAGTGGGGAC	180
CAAGAAACAG	AGGAGTTGGA	TAATCCTGAG	TTCGTGGCCA	TTGTGGCCTA	TACCGACCCG	240
TCGGACCCCT	GGGCCCGGAA	GGAGAACTCG	AG			272

- (2) INFORMATION FOR SEQ ID NO:557:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 280 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:557:

CAREECCO	THE THE COURT	ATTTCCGATC	שא שכישא שכישכי	TACTCATACA	CCCTCNTCCC	60
GAATICGGCC	TICATOGCCI	MITICUGATO	INIGIAICIG	INCICAINCA	GCCTCATCGG	00
GCTAAACAGC	CTTCTTTTCA	GAACAGTAGA	TCACTCAACT	GGGTTTTCAA	GTGACTGTTT	120
ACCTTTCAAG	GCTGGCTTTA	TAGGTCTTGC	CTCACTGTAT	CCAGCAATCC	AAACTTTACC	180
CTATCCCAGT	CAGGACTGCA	CACCTCATAT	TGAAAGACAT	ACCTTAGAAC	CAGACTCCCC	240
AAACCTTACA	AATATCCCAC	CCTTGACTCC	CGTTCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:558:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 474 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:558:

GCAATGGTCT CCAGGATGGT CTCTACCATG CTATCTGGCC TACTGTTTTG GCTGGCATCT

WO 98/45437 PCT/US98/06956\_

GGATGGACTC	CAGCATTTGC	TTACAGCCCC	CGGACCCCTG	ACCGGGTCTC	AGAAGCAGAT	120
ATCCAGAGGC	TGCTTCATGG	TGTTATGGAG	CAATTGGGCA	TTGCCAGGCC	CCGAGTGGAA	180
TATCCAGCTC	ACCAGGCCAT	GAATCTTGTG	GGCCCCCAGA	GCATTGAAGG	TGGAGCTCAT	240
GAAGGACTTC	AGCATTTGGG	TCCTTTTGGC	AACATCCCCA	ACATCGTGGC	AGAGTTGACT	300
GGAGACAACA	TTCCTAAGGA	CTTTAGTGAG	GATCAGGGGT	ACCCAGACCC	TCCAAATCCC	360
TGTCCTGTTG	GAAAAACAGC	AGATGATGGA	TGTCTAGAAA	ACACCCCTGA	CACTGCAGAG	420
TTCAGTCGAG	AGTTCCAGTT	GCACCAGCAT	CTCTTTGATC	CGGAAACACT	CGAG	474

- (2) INFORMATION FOR SEQ ID NO:559:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 290 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:559:

GAATTCGGCC	TTCATGGCCT	AATTTTTTŢG	TTGTTGTTTC	CTTTTTGTAT	TTTACTGATA	60
TCACCAGGAT	AGTTTACTCT	CCTTCTAGCT	TTCTGCTTAC	CGCACACTGG	ATAACACACA	120
CATACACACC	CACAAAAATG	CTCATGAACC	CAATCCGGAG	AAGGTTCCAG	CAGGTCCCCC	180
ACCCTCCCCT	CCTCCTCCTA	CTTCTCCTCT	TGACAGCGAG	GACAGGAGGG	GGACAAGGGG	240
ACACCTGGGC	AGACCCGCCG	GCTCTCCCCC	CACCCCACCC	CGTCCTCGAG		290

- (2) INFORMATION FOR SEQ ID NO:560:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 361 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:560:

GTGTATGTGG	GGGGTAAGTG	TGTGTGTGTG	CGTGTGCGTG	TATGTGCACG	TGTTGTGTGT	60
GTGCGCCTGC	ACACGGAGAG	CCCACTCATA	CGTAGCAGAA	AATCAAATGG	CCCCAAATCA	120
GAAACATGGC	GCATGTGAGC	ATGCCACTTC	TTGTGTGCCT	GTGACTGTTC	AGAATGTACA	180
CGGCCCTGCA	GCTCCCGAAG	GCCAGCTCTG	CTGCAACCCC	TCCTCTGTCC	AACACAGTCC	240
TCACTGGTGT	CTTTTCCTCT	TCAAATCTAC	AGCATTTCTG	ATCTCTGCAA	ACAATTTAAC	300
CCAAAACCAA	GTTCTGGCTG	ACAAGGCTAC	ATCTTGTTTC	TTGTGCGTGA	TTAGCCTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:561:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 381 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:561:

GTTCTAGACC TGCCTCGAGA TATGCCGGAA GGTTGCATGG CTGGTCCCAG GGCCAGCACA

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GGCCCGAGGC	CGGGCTGCCT	GGTTTTATTT	TTATTTAACT	TTATTTTCTG	TTTTATGAGT	120
GTGTGTCCGC	CCACCCCCAC	CCCCTTCAGT	GTTAAGTGGG	GAGCCCTGGG	GGAGTCTCTC	180
CTGCCTCCCA	GCCTCTCCCA	AGACCTCCCC	CCTCGTCACC	AGCCATCCCT	CTGGACCAGG	240
CAGAGGGCGG	ACCGGGTGGG	CAGGGGCCTG	AGGGTGGCTC	GGGCCAGCCC	ACCAGCCAAT	300
GGACCCCTCC	TCAGGCCGCC	AGTGTCGCCC	TGCCCCTTTT	TAAAACAAAA	TGCCCTCGTT	360
TGTAAACCCT	TAACGCTCGA	G				381

- (2) INFORMATION FOR SEQ ID NO:562:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 317 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:562:

GCACTCATAA	AAATCTTACT	CAGAAATCTT	CAGAGGTTTG	CTAAGGATAC	AATTTGATTC	60
TTACACATTT	AATGCTCACC	AGCTGCTTAG	GCCCACACCA	TTTATCCACC	CTGATTTGCT	120
ACTGCTCTTT	GAAATACAAC	CAGTGTTTCA	GCCAGACTGT	TTTCCTGCTT	CTGCTCCCCT	180
TCTCCTCCTC	CCAGCACATC	TGTGAATTCT	TTGACTGGTT	TACCACTCCC	ACACTCCTCC	240
CCAGCAATGC	AGATCTTCTA	CACCCTTTAG	GATCTAAGCT	AAGTCTGCTT	CCCAGATATC	300
CTCCCGAACA	GCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:563:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 472 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:563:

GAATTCGGGC T	TCATGGCCT	ACTTTAATGA	GATAGGAACT	AGTATATTCA	CCGTCTATGA	60
GGCCGCCTCA C	CAGGAAGGCT	GGGTGTTCCT	CATGTACAGA	GCAATTGACA	GCTTTCCCCG	120
TTGGCGTTCC T	PACTTCTATT	TCATCACTCT	CATTTTCTTC	CTCGCCTGGC	TTGTGAAGAA	180
CGTGTTTATT C	SCTGTTATCA	TTGAAACATT	TGCAGAAATC	AGAGTACAGT	TTCAACAAAT	240
GTGGGGATCG A	AGAAGCAGCA	CTACCTCAAC	AGCCACCACC	CAGATGTTTC	ATGAAGATGC	300
TGCTGGAGGT 7	TGGCAGCTGG	TAGCTGTGGA	TGTCAACAAG	CCCCAGGGAC	GCGCCCCAGC	360
CTGCCTCCAG A	AAAATGATGC	GGTCATCCGT	TTTCCACATG	TTCATCCTGA	GCATGGTGAC	420
CGTGGACGTG A	ATCGTGGCGG	CTAGCAACTA	CTACAAAGAA	GAAAACCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:564:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 411 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:564:

GCCGCGATGT	TCCCCCTTCG GGCCCTGTGG TTGGTCTGGG CGCTTCTAGG AGTGGCCGGA	60
	AGCCGTGCGC CTGCGTGGAC AAGTACGCTC ACCAGTTCGC GGACTGCGCT	120
	TGCGTGAGGT GCCGGAAGGA CTGCCTGCCA ACGTGACGAC GCTTAGTCTG	180
	AGATCACTGT GCTGCGGCGC GGGGCCTTCG CCGACGTCAC ACAGGTCACG	240
	TGGCGCACAA TGAGGTGCGC ACCGTGGAGC CAGGCGCACT GGCCGTGCTG AGAACCTCGA TCTGAGCCAC AACTTCATAT CCAGCTTTCC GTGGAGCGAC	300 360
	TGAGCGCGCT GCAGCTGCTC AAAATGAACC ACCACCTCGA G	411
CIOCOLIVICO	Totaldecor. Consequent institution in addition of	
(2) INFORMA	ATION FOR SEQ ID NO:565:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:565:	
(/		
СУСТСУСУУС	CCTCAGACTT TCAAAGAGCC AGGAAATCGG TATAAAATTT TTGAGATAAC	60
	CTTTTTGCAG TTTTTCCTAG GACCAGATTA AACAGAAGTT TTCCTTTACA	120
GTATTCATTA	TGGTTGGTAT CTCCAGAGTT CATCCTTTTT TTGTGGTACT GGGAAAAGTT	180
GCAACATTTA	CCTTTGCAGG GACATGGATG GAGCTGGAGG CCATTATCTT TAGCAAACTA	240
ACACAGAGCC	AAAGACAAAA ACCACTCGAG	270
(2) INFORMA	ATION FOR SEQ ID NO:566:	
(i)	SEQUENCE CHARACTERISTICS:	
,_,	(A) LENGTH: 272 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
	ADDITIONAL DESCRIPTION AND TO TO TO TO	
(X1)	SEQUENCE DESCRIPTION: SEQ ID NO:566:	
GTTCCTGTTG	ACTAACGGCT CATCTTTTCC TTGTTTTTGT TTTTTTTTTT	60
	AAAGGCCAAA ACTGGAACCA AGGATTTAAT AACTATTATG ATCAAGGATA	120
	AATAGTGCCT ATGGTGGTGA TCAAAACTAT AGTGGCTATG GCGGATATGA	180
	TATAACTATG GGAACTATGG ATATGGACAG GGATATGCAG ACTACAGTGG	240
CCAACAGAGC	ACTTATGGCA AGGCATCTCG AG	272
(2) INFORM	ATION FOR SEQ ID NO:567:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 306 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(2011	SEQUENCE DESCRIPTION: SEQ ID NO:567:	
(X1)	DENOTICE DESCRIPTION. DEN ID NO.301.	
	TOTAL	
	GAATTCGAAA TATTGGCATA TGGTTCTTTT GGATTAGATT ATATAAAATC GAACCAGGCC CCAAGCACTC CTTTTCTCT GCATGATACT TCTGCTTATT	60 120

180

GTCCTTCACA CTAGCTACAT GATTTATAGT CTTGCTCCCC AATATGTTAT GTATGGAAGC

CAAAATTACT TAATAGAGAC TAATATAACT TCTGATAATC ATAAAGGCAA TTCAACCCTT TCTGTGCCAA AGAGATGTGA TGCAGAAGCT CCTGAAGATC AGTGTACTGT TACCCGGACG CTCGAG	240 300 306
(2) INFORMATION FOR SEQ ID NO:568:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 253 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:568:	
GGTGTTTGGC CACAGTTCGG GACCTATGGT AGAAAAATAC TCAGTAGCTA CCCAGATTGT AATGGGTGGC GTTACTGGCT GGTGTGAGG ATTTCTTCT AGCAACTGCA GTAGGTGGTG GCTTTCTTCT TCTTCAGATT GCTAGTCATA GTGGCTATGT GCAGATTGAC TGGAAGAGAG TTGAAAAAGA TGTAAATAAA GCAAAAAGAC AGATTAAGAA ACGAGCTCTC GAG	60 120 180 240 253
(2) INFORMATION FOR SEQ ID NO:569:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 544 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:569:	
CACAGTGCTG GCTCACAACA AGATGCTCAA GGTGTCAGCC GTACTGTGTG TGTGTGCAGC CGCTTGGTGC AGTCAGTCTC TCGCAGCTGC CGCGGCGGTG GCTGCAGCCG GGGGCGGTC GGACGGCGGT NATTTTCTGG ATGATAACA ATGGCTCACC ACAATCTCTC AGTATGACAA GGAAGTCGGA CAGTGGAACA AATTCCGAGA CGATGATTAT TTCCGCACTT GGAGTCCAGG AAAACCCTTC GATCAGGCTT TAGATCCAGC TAAGGATCCA TGCTTAAAGA TGAAATGTAG TCGCCATAAA GTATGCATTG CTCAAGATTC TCAGACTGCA GTCTGCATTA GTCACCGGAG GCTTACACAC AGGATGAAAG AAGCAGGAGT AGACCATAGG CAGTGGAGGG GTCCCATATT ATCCACCTGC AAGCAGTGCC CAGTGGTCTA TCCCAGCCCT GTTTGTGGTT CAGATGGTCA TACCTACTCT TTTCAGTGCA AACTAGAATA TCAGGCATGT GTCTTAGGAA AACAGAATCT CGAG	60 120 180 240 300 360 420 480 540
(2) INFORMATION FOR SEQ ID NO:570:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 330 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:570:	
GAATTCGGCC TCATGGCCTA CATTAAAGAA AAGCTTCCCA CACATCCATT TGAAGCTGAT CTCCTTGAGA TGGCAGAAAT GATTGCAGAA GATGAAGAGA AGAAGACTCT ATCTCAGGGA	60 120

GGAAGTACAT GAAGAGCTGA	CTTCTGAACA CGAACTCTTT CTAGACACCA AGATATTTGA AAAAGACCAA ACAGTGGTGA TCTTGAATCA GAGGCAGTAT CTACTCCACA TAGCTGGGAG ATCACTATGC CTTAAAGTCA AATGCTGTGC AAGAGGCTGA TTCAGAATTG CAAAAAGGGGA AACCCTCGAG	180 240 300 330
(2) INFORM	ATION FOR SEQ ID NO:571:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:571:	
TCTTTAAAAA AAACAAAATG TGCGTTAAAA	TTCATGGCCT AAGGGAAAAC ATTTTGCATG TGTAAAGCTT CATGAAGTTC ATACCAAAGC TTGTTTATTT CTGATAATTA ACCTAAGCCC TTATGAAAAT AAGGGATTAT GACAGAAAACA CCAAAAGGAA CAAAGGGGCC CCTAATTGCT AATGCTTCAC AACTAGGAGA GCATGCCGTC TTGATGTTTA GGTCTCCACC CTTCCTTTGA TTTGTGCAAT TCTGTCTTCC ACAGTTCCGG AG	60 120 180 240 300 312
(2) INFORMA	ATION FOR SEQ ID NO:572:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 391 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:572:	
CTGGGGTCAA GCTCTTCTCC CACGGTGACA CCTGTACACG CCAGGTACTG	ATGGCCGCAG CAGGAGTAGA GGTCCTGAGC CTCCTATTTT TCTGCATCTA TATGCCACCG ATGGCATTGG CAACGAGAGT GTGAAGATCT TGGCCAAGCT TCCAGCTTCC TCATCTTCCT GCTGATGCTT ATCCTCCTGG GGAAGGGATT CGGGGCCGCA TCAGCCACGC GGGCTCCGTG AAGTTGTCTG TCTACATGAC CTCACCCATG TGGTGCTGCT CATCTACGAG GCGGAATTCT TTGACCCAGG TACACGTATG AGTCGCCGGC CGGCTACGGG CTCATTGGAC TGCAGGTGGC TGGTTCTGCT ATGCTCTCGA G	60 120 180 240 300 360 391
(2) INFORMA	ATION FOR SEQ ID NO:573:	
(1).	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:573:	
TTTGTTAATT	TCATGGCCTA AAAAAAACTC CAGAAAAAAA CAACAGCGCG GTGGTGGGGT TCGCCTTTTT TTTTTTTTGC ACGCGCCACG AAATTCAGGC TGCGTTTAGC TATCCAAAGT AATTGCAGAT TGCGGAGACG CACAGCATTA GTTCAAAAAAA	60 120 180

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GACCCGAGGC ATTGGGGCAG GGTTAGGTGG AGGGCACCGG AGGCTCTACA CAAGAAAAGC AGGAACCTGC AAACCCACGT AGATTTCCAC TACAACCTTC CCTTTTCTTC TGGCTAGCCA TCCAGGCACC TGCATGGCAC AAGTTGCTTC TGATAGTCTT TTAAGTTTGC TAAGGGAACT CCTCGAG	240 300 360 377
(2) INFORMATION FOR SEQ ID NO:574:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:574:	
GAATTCGGCC TTCATGGCCT ACAGCCTCAA GTCACTCCCA AGCCCCTCC TTGTCTGTGC ATCCGGGGGC AGCTCTGGAG GGGGTTTGCT GGGGAACTGG CGCCATCGCC GGGACTCCAG AACCGCAGAA GCCTCCCCAG CTCACCCCTG GAGGACGGCC GGCTCTCTAT AGCACCAGGG CTCACGTGGG AACCCCCTC CCACCCTCGC GAGTCTGTT CCAAGGAGGA GAAGGAGCAG AACTATGACT TAACTGAAGT CTCAGAGAGC ATGAAAGCTT TCATATCCAA AGTCTCAACC CACAAGGGGG CAGAGCTGCC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:575:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 438 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:575:	
GAATTCGGCC TTCATGGCCT ACTCAGCCTC CCTAATAGCT GGGATTACAA GCGTGAGCCA CCACACCCCG CTGGGAAATA TCTTAAAAGA ATCAAAATAA GAAAGTTACT CTACTTAAAT CGTGTGCTTT TTCTGTGTGT GATTTATGGT AATCTTACCA TGGGGTATCT GATTACTTTA GAAAGATCCA TTTAGCTTAT TTTTTTCTTC TTTGGGTTAT TTTTTTCTTC CTTCCATTTG CACAGCCTCC CCCCAAATAA AAAATAAAGA TATAAAGTCT ATCTTCTCC TCTTGTCAGT TTAAGTAAAA AGAACTTTTG CTTCCATTTT AATAATAGAA TTTGTGTGTA TATAATATAG GCAGTGATTT GGCCTCAAGC TGAGTTTAGA TTTGAAAAGA TGAGAATATT AAAGCTTGTC AGCCAGCCCCA CTCTCGAG	60 120 180 240 300 360 420 438
(2) INFORMATION FOR SEQ ID NO:576:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 510 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

60

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:576:

NTTAATAACA	GCTATCCTAA	CAGGTATGAG	GTGATCTCTC	TCATTGCGGT	TTTGATTTGC	180
ATTTCCCTAA	CGGTTGGTGA	TACTGAGCAT	TTTTGCATAC	ACCGGGTCAT	TTGTTCTTTG	240
TTGTTGACTT	GAGTCCCTTA	TATAGTTTGG	ATACTGCTGT	GGCCTGAATG	TTTGTGTCCC	300
CCAAAAATTC	GTATATTGAA	CTCTCATCCC	TAAGGTCAAC	AGTTTAGGGA	AGCGATTAGG	360
TCCTGAGGAC	TCTGCCCTCT	TGCATAGAAT	TAGTGCTCTT	ATAAAAGATG	CCCGAGGGAG	420
CTCTTTTGCC	CCTCCTGCCA	TGTGAGGACA	CAGCTAGAAG	CTACCATCTG	TGAACCAGGA	480
AGCCCCCCTC	ACCAGACACT	GTATCTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:577:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 276 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:577:

GAATTCGGCC	TTCATGGCCT	AAAAAATAAA	TATAAAATAA	ACAACCAAAG	GCAGTATTCA	60
CAGAGGTATT	TCTTGGGAAT	AAAAGAAGGA	ATATAGTCAT	TCCTTGGTAT	TCTCTTTGGT	120
GTCCAGAGTT	ACTTAAAAAT	TCTTGGTGTT	TATTGCCTTT	TAGTCACAGG	GATACACCTT	180
TTATTCATTT	ATTTATTTAT	TTACCAGTCT	CATTTAGCAG	TAGGAATGCA	TCTTAGCATT	240
TTTATACTGC	TGCTCAACAC	AGTGCTTTCA	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:578:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 262 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:578:

GAATTCGGCC TTCATGGCCT	AAATCCTTCC	AGATGTCCTG	TGAAAATGTT	TGAATGCTAC	60
TTGTCTAAAA GTCCACAGAA	TCTTAATCAG	AGGATGGATG	TTTTTTTTTT	GCAACCAGAA	120
TGCTCTAGTT CTACAGATAG	CCCTGTCTGG	TATACGTCTA	CTTCACTGGA	CCGAAACACC	180
TTGGAAAATA TGCTTGTACG	GGTTCTTCTA	GTAAAAGATA	TTTATGATAA	AGACAATTAT	240
GAACTGGAGG AAGACACTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:579:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 439 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:579:

GAATTCGGCC	TTCATGGCCT	AATTTAGGAC	CATTTAAGAG	AGTTTGACTA	AGAAAGAGCT	60
GTTTGAAACC	TCCTGGCTTA	TGTATTTTTA	GGGGTGTGGT	GATCGAGGCT	TTCTCCTCTG	120
AGTAGAGTTT	GTGCATTTGC	AGTATAAGAT	TATCATTATC	AAACATTCCT	ACTAGGCCTT	180

TCTCCTCAGC	CCCTAAAAAA	ATATGTATAG	TAATGAAGTA	GGAAGATCAT	GTTTATATTT	240
GACTTCACAA	ATTCCTCAGG	CTAAGTTGCT	TTCTACTGGG	GTGTGGCTGG	AGACAAAAAT	300
TACAGGTAAG	ACTTGACTTA	ATTTTTGATA	GGGAGGTTCT	TAAGAGGCTT	TTTCGGAATC	360
ACTCACCTCG	CCCACTTCCA	TGCAGGGATG	TGGTGAGAGC	CCTTCAGTCT	ACTTAGGAAA	420
ACCTGGCACA	TGACTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:580:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 346 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:580:

GAATTCGGCC	TTCATGGCCT	AGATATTCTC	AGGGTCATCA	AGACTCCTGA	GATAGCAAAC	60
TTGGCCTTGC	TTGGCTTTGG	AGATATCTTT	GCCCTGCTGT	TTGACAACCG	CTACCTGTAC	120
ATCATGGACT	TGCGGACAGA	GAGCCTGATT	AGTCGCTGGC	CTCTGCCAGA	GTACAGGAAA	180
TCAAAGAGAG	GCTCAAGCTT	CCTGGCAGGC	GAAGCATCCT	GGCTGAATGG	ACTGGATGGG	240
CACAATGACA	CGGGCTTGGT	CTTTGCCACC	AGCATGCCTG	ACCACAGTAT	TCACCTGGTG	300
TTGTGGAAGG	AGCACGGCTG	ACACCATGAG	CCACCAGCCG	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:581:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 740 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:581:

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GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGATTGCC	ATCTTGGTTT	TGGTGGGTTT	60
CGGCCGACTT	CTTTGCCACT	TGCTATTTTA	TTTTCTAGGT	CTTTGTGCCC	CGTATTGTGT	120
GCTGAACTCC	NGTCTCATCC	TGTGACTAAG	ATTGCCTAAC	CTCCTGGGAA	TGCAGCCCAG	180
TAGATCTCAG	CCTTACTTTA	CCTAACCCCT	TTTCAAGATG	GAGTCACTCT	GGTTCAAACA	240
CCTCTGACAT	TCGCAGTGGA	ATCCATTAAA	AGATGTTAAG	GAGATATGAT	TATATTTCTA	300
AATTGTCACT	CCAGCATCCC	CTACGCCAGA	CATTATGCCA	GTCTCTATCC	ATACAGTATC	360
TCATTTAATC	CTCCCGTCAT	TAATCTCATT	TTACCAATGA	GTAAACTTGA	AGCAAATGAG	420
TGACTTTCTC	AAGGCTACCT	ACTTACGCCT	TACCAGGGCC	AGGATTCAAA	CCTAGACTTG	480
TTCAGCGACA	GAACACACAC	TTAACCATCA	CCCACTTAGG	CCATGAAGGC	CGGCCTTCAT	540
GGCCTAAACT.	GCTGTTATTT	TGGATTATAT	GGAGTTATGA	AAATCTAAAT	GTTTTACAAA	600
GTTAAAAAGT	ATTCTTTTTT	TGCTCACTTA	TAACTCAAAA	ATCACTAAAG	TCATTCTGCT	660
AAACATGCCA	CGAAGCCAAG	CTTCTTGCCA	TATGTCTGCA	TAATTTTATT	AAATCACTGC	720
TATTGACGTG	CAACCTCGAG					740

- (2) INFORMATION FOR SEQ ID NO:582:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 491 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:582:

GAATTCGGCT	TTCATGGCCT	ACAAAGGGGT	AGCAAGGCAT	GTCTTACATG	GTGGCAGCAG	60
AGAGAGAGAG	CAGGGAAAAC	TGTCATTTAT	AAAACCATCA	GATCAGTTGG	GTTGTGCAAA	120
TGGTGGAGAA	GAAAACTTCA	GGAAGAGTGC	ATAGACTGAG	CAGAGAAGAG	GACCAGCTAC	180
CTCCGTAGAG	GCAGGGAGAG	CAGCCAAGCT	GGAGCCTGAG	CAGCATTGCT	GGACATGGAG	240
AAGGTCTGGA	ATCTTGTCAA	GGAAGCAAGC	${\tt AAAGGGTTTC}$	TTTCTATTCA	ATGAAGTCCA	300
CTCCCAGGAC	CCTGGGCAGC	AACGGGTGCT	GGACTGGGCC	ACCTGGCAGC	GTCACATCAA	360
CTGGCAGCTA	GAAGTCCTGG	AGAATGACAA	CTTCCAGGAC	GACCCCCATG	TGGGACTCCC	420
TCAGCTCAGC	AAGAGACTGC	CACAGTTCGA	TGATGATGCA	GACACCAGAC	AGTAAAAGAA	480
GAAAACTCGA	G					491

#### (2) INFORMATION FOR SEQ ID NO:583:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 566 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:583:

GAATTCGGCC	AAAGAGGCCT	AAACAGTCCA	GAGAGGCATA	AATCAGACCC	AGTTCCTAGC	60
TGGCTTGTCC '	TTATCAAGTA	AATGGAAAAG	GGGCCAGGCC	AAAGCAGGGC	AAGATGACCT	120
TGGACTTGGG	AGAGACTTGG	ACTCATGCCA	CAATCCTAGG	GTGCCCACTG	GACCATTGCT	180
TTTCTGAGTT '	TTGTAGTCAT	TCGGTGTCTG	AAGTAAGGTA	${\tt GATTGAAGTG}$	AGGCCTTCGG	240
TTTCCATCTG (	GACCCTTTCT	CTCCTGTTTT	CTTTTTTTCC	GCCTTGTCCT	AGGGATGTTC	300
AATAGCCCAG	AAATGCAAGC	CCTCCTCCAG	CAGATCTCTG	AGAACCCCCA.	GCTGATGCAG	360
AATGTGATCT	CAGCACCCTA	CATGCGCAGC	ATGATGCAGA	CGCTTGCCCA	GAACCCCGAC	420
TTTGCTGCTC	AGATGATGGT	GAATGTGCCG	CTCTTCGCGG	GGAACCCCCA	ACTGCAGGAG	480
CAGATCCGCC '	TGCAGCTCCC	AGTCTTCCTG	CAGCAGATGC	AGAACCCAGA	GTCACTCTCC	540
ATCCTTACCA	ATCCCCATAC	CTCGAG				566

#### (2) INFORMATION FOR SEQ ID NO:584:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 482 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:584:

GAATTCGGCC	TTCATGGCCT	AGTTGAAAAT	GATCATTACA	CAATATATTC	CTAAACATAA	60
ACTGAGTAAA	CTTGAAACAG	CTCACTGTGT	GGAGAGGACC	ATTCCCGTTT	TGCTCACCAG	120
AACTGGAGAT	TCTTCTGCCC	GCCTCCGCGT	CACAGCTGCA	AATTTTATTC	AGGAAATGGC	180
CTTGTTTAAA	GAAGTTAAGT	CTCTCCAAAT	TATTCCATCC	TACCTGGTGC	AGCCATTGAA	240
AGCAAACTCT	TCAGTTCACC	TGGCAATGAG	TCAGATGGGC	CTCCTGGCCC	GGCTGCTGAA	300
AGACCTGGGC	ACTGGCAGCT	CGGGCTTCAC	CATTGACAAC	GTGATGAAGT	TTTCAGTGAG	360
TGCCCTGGAG	CATAGAGTGT	ATGAGGTCCG	CGAGACGGCG	GTTCGAATTA	TTTTGGACAT	420
GTACAGACAG	CACCAGGCTT	CCATCCTGGA	GTACCTTCCT	CCAGACGACA	GCTAATCTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:585:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 265 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:585:	
GAATTCGGCC AAAGAGGCCT AATAAAGGTG TGGAAACTTC ATTCATCAT ATCTTCAACA CAAATTGTAG GTAGCCTGTT TTTTAAAACA TTTATTCAAC AAATATTTAG TCCAAGCCAC TATTACTTAC TACCTTCTCT ACTATTGTAT GGACTTTTAA CTATCTCTGA CACTATTCAC TATTCTTCCA CATTCTCTAT TATTTATACC TATGGTAAAA TTTGCCAGTT TGACCATACA ACTAATACTC ACAGGGACAC TCGAG  6 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	0
(2) INFORMATION FOR SEQ ID NO:586:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 120 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:586:	
GAATTCGGCC AAAGAGGCCT ACTCGAGTTT GGTGCTTTAT TTAGCAAGTG AGTAAAAATA 6 TTGGAATATT TAAGTATTTG CATAAAAAAT CAAATGGTAG TGTTTTGTAA TCTCTACTGT 12	-
(2) INFORMATION FOR SEQ ID NO:587:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 503 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:587:	
GAATTCGGCC AAAGAGGCCT ACTCGAGTCA GGTCTAGAAT TCAATCGACG GTTTAGGAAA AAGACAATTT AAGAGAAGAAA CTAAAGAAAA GAACAGAAAC TGAGAAGCAG CATATGAACA 12 CAATTAAACA GTTAGAATCA AGAATAGAAG AACTTAATAA AGAAGTTAAA GCTTCCAGAG 18 ATCAACTAAT AGCTCAAGAC GTTACAGCTA AAAATGCAGT TCAGCAGTTA CACAAAGAGA 24 CGACCCAAC GATGGAACAG GCCAACAAGA AATGTGAAGA GGCACGCCAA GAAAAAGAAG 30 CAATGGTAAT GAAATATTA AGAGGTGAGA AGGAATCTTT AGATCTTCCA AAGGAAAAAG 36 AGACACTTGA GAAAAAACTT AGAGTGCAAA ATAAGGAACT TGAGAAAAAA ACTAACAAAA 42 TTAAGCAGCT TTCTCAGGAG AAAGGACGGT TGCACCAGCT GTATGAAACT AAGGAAGGCG 48 AAACGACTAG ACTCACTCTC GAG	000000

(2) INFORMATION FOR SEQ ID NO:588:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 567 base pairs (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:588:

GCCACTATGG TACCAAAACC	TCAGTCTTCA	CATAGTCAAA	CTTGGACACA	AACAGCACCT	60
CCCACAAACA TTCTTATCCT	CATCCCAGCA	TTGGTTACTG	ACCACACACT	CTAGCAGGTC	120
ACTCAAGCGC TAATGCTGGG	AAGGACCTCT	GAATACTTCT	CTTTGTCTTG	TGCCACACAG	180
CCAGGGTCAC CAAAGCCTGT	TAATGCTACC	TCCAAAAAAG	GCAAATCTGA	CCCCTCTTCC	240
TCAAAACCCA GCCACATAGT	AAGTTCAAGG	ATTCAGTCAC	AGGTCTGCCT	TAGTGCACTA	300
GCCCTATAAC AGTAAACTAT	TCACTTCCCC	TCCAGTCCCT	TGCCCCCTTT	CAAGCAATTT	360
CCTGTACTGC CAAGGGAATT	ACTTTTCTAA	AATTAGCTAA	GAAACTTTTG	ATGGTATCTT	420
ACTGTCCCAA AAATAAATTT	TAATTCCTTC	TTTAGCATGG	TATAAAAAGG	ACACAACAGA	480
GTTTGGTCTA GTGTCCTTTT	AAAGACACTA	GATTTCTCAT	CACCATACCG	CATGTACCCT	540
ATACGACTTA TCAATTCCCT	ACTCGAG				567

- (2) INFORMATION FOR SEQ ID NO:589:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 138 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:589:

GAATTCGGCC	AAAGAGGCCT	AGGCATGGTG	AGTTTTGATC	TTCTTCCCCT	TCTTTTCTTC	60
CCCTTCTTCT	TTCCTTCTTT	GATCTTCTTC	CCCTTCTTTT	CTTCCCCTTC	CCCTTCTTTT	120
CAATTTCTCC	CACGTCAA					138

- (2) INFORMATION FOR SEQ ID NO:590:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 420 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:590:

GAATTCGGCC	AAAGAGGCCT	AGAGAGAATG	GAAAAGATAA	GGAACAGAAA	CAAACAAATA	60
CCGATAAAGA	AAAAAATAAA	AGAGAAAGGG	AGCTTCTCTG	ACACAGGCTT	GGGTGATGGA	120
AAAATGAAAT	CTGATTCTTT	TGCTCCCAAA	ACTGATTCTG	AGAAGCCTTT	TCGGGGCAGT	180
CAGTCTCCCA	AAAGGTATAA	GCTCCGAGAT	GACTTTGAGA	AGAAGATGGC	TGACTTCCAC	240
AAGGAGGAGA	TGGATGATCA	AGATAAGGAC	AAAGCTAAGG	GAAGAAAGGA	ATCTGAGTTT	300
GATGATGAAC	CCAAATTTAT	GTCTAAAGTC	ATAGGTGCAA	ACAAAAACCA	GGAGGAGGAG	360
AAGTCAGGCA	AATGGGAGGG	CCTGGTATAT	GCACCTCCAG	GAAAGGAAAA	ACCGAGGCAG	420

- (2) INFORMATION FOR SEQ ID NO:591:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 611 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:591:

			TCAAATAACT			60
			AGAGCACAGT			120
AGTGAAATTA	ACCAAAGATG	AAGCTTTGGC	TTTGCTGGTG	AGATCAGAGC	CCTCCTGAGC	180
			CTGCACAGGC			240
GGGCTGAGAC	GCCATGGGGC	CGCTGCTGCT	TATGTGGTTG	GATTGTTTAC	AAGCCTCATT	300
			CTGCCTTTCC			360
			CTTTTTAAGC			420
			CCTCATGATG			
						480
GATGTGAGGT	GGGGACTTCA	TTCATTGTCC	TATTTCTATC	TNCACTTTGT	GCCTGGAGAG	540
CTTTCAGGGG	AGGTGGAGGA	GGAGGGTCTG	CCAAGCTACT	GCAACATCTG	TCACCCACTA	600
NACCCAGACC	T					611
						V

- (2) INFORMATION FOR SEQ ID NO:592:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 443 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:592:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTC	TAGACCTGCC	TGAAACCTGT	CCCTCCTAGG	60
AAATTGAATA	GCTTGAGTTA	CGAAGGAACT	GCATGGGACA	GACTGAGTTT	TGTTCCTCTC	120
TTCCCTGGAA	GCTGGATGTC	CTTTACAGCT	TTGCCCAGTA	TGTCATGTGG	CCCCTGAAGT	180
ACATAATCCA	GAGTGGACTG	CCTTTCAGGG	TCCCTCAGCT	GTGAAAGTGG	AGCATTCATA	240
TCAAGACTAC	ATCTTTCCTG	TTCAGCTTTC	TTCAGCCTTG	GAGGAACCAC	ACACAATGGA	300
TCCAAGACTT	CTGTCCCTTG	CTAATTATCT	ATAAGAAGTA	AACCCATTTC	ACATAACTTG	360
TGAATATGTT	TTCTTTCACT	GGATTTTGGC	AAATAGGTAC	CCAGTGCATG	GTGGACCTAC	420
ACAGTTAGGC	CTCTTTGGCC	GAA				443

- (2) INFORMATION FOR SEQ ID NO:593:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 441 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:593:

GAATTCGGCC	AAAGAGGCCT	AAAAGCATTC	AGTATTGGTA	AAATGAGTAC	AGCTAANCGA	60
ACTTTAAGTN	AAAAGGAGCA	GGAAGAATTA	AAGAAAAAGG	AGGATGAAAA	GGCAGCTGCT	120
GAGATTTATG	${\tt AGGAGTTTCT}$	TGCTGCTTTT	GAAGGAAGTG	ATGGTAATAA	AGTGAAAACA	180
TTTGTGCGAG	GGGGTGTTGT	TAATGCAGCT	AAAGAAGAAC	ATGAAACAGA	TGAAAAAAGA	240
GGTAAAATCT	ATAAGCCATC	TTCAAGATTT	GCAGATCAAA	AAAATCCTCC	AAATCAGTCT	300
TCCAATGAAA	GACCACCATC	TCTTCTTGTG	ATAGAAACCA	AAAAACCTCC	ACTTAAAAAA	360
GGAGAGAAAG	AAAAGAAAAA	AAGCAATTTG	GAACTCTTCA	AAGAAGAATT	AAAGCAAATT	420
CAAGAGGAAC	GTCGACTCGA	G				441

- (2) INFORMATION FOR SEQ ID NO:594:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 562 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:594:

		AAGAAAACCT				60
		GTGAATCATC				120
TCGAGATCGT	GAGATAAACA	GCCTCCGGCG	CCAGCTTGAT	GCAGCTCACA	AAGAACTCGA	180
TGAAGTAGGA	AGATCTAGAG	AAATCGCTTT	TAAGGAAAAC	AGAAGACTGC	AAGATGACCT	240
GGCTACAATG	GCAAGAGAAA	ATCAAGAAAT	CTCATTGGAA	TTGGAAGCAG	CAGTGCAAGA	300
AAAAGAAGAA	ATGAAGAGCA	GAGTTCATAA	ATACATAACA	GAGGTGTCAC	GATGGGAGAG	360
		AAGAAAATCA				420
TAACCGTGCT	GAAGACTGGG	AGGTCAAAGC	CCATCAAGCT	GAGGGAGAAA	GCAGCTCAGT	480
TCGACTGGAA	CTTCTTTCTA	TTGACACTGA	GAGGAGACAT	CTTCGGGAAA	GAGTGGAGCT	540
	GAAAATCTCG					562
						302

- (2) INFORMATION FOR SEQ ID NO:595:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 426 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:595:

GGAAGAGCAG	AATTTGGTGG	CTTATCCTCA	TGATGGAAAA	ATCTTTTTCT	GCACCTCACA	60
AGATATCCCT						120
TGGTGTTCCT						180
CACAGAGTTC	AAAGCCCATC	TGACCAGCCA	CATCCATAAC	CATCTTCCTA	CCCAGGGACA	240
TAGCGGCAGC	CATGGGCCAA	GTCACAGCAA	AGAAAGGAAG	TGGAAGTGCT	CAATGTGCCC	300
CCAAGCTTTT						360
GCCCCACAAG	TGTGATTTCT	GTAGCAAGGC	TTTTAGTGAT	CCCAGCAACC	TGCGAACCCA	420
CTCGAG						426

- (2) INFORMATION FOR SEQ ID NO:596:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 328 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:596:

GAAAAATCAG	TCGACTGAAT	GACACCATCA	AATCTTTGAA	ACAACAGAAG	AAACAAGTGG	60
AACATCAGCT	GGAAGAAGAA	AAGAAAGCAA	ACAATGAGAA	ACAGAAAGCT	GAAAGGGAGC	120
TAGAGGGTCA	AATCCAGAGA	TTGAACACAG	AGAAAAAGAA	ACTAAATACG	GACCTGTATC	180

ACATGAAACA	TTCTCTCAGA	TACTTTGAAG	AAGAGTCCAA	GGATCTGGCC	GGCCGCCTGC	240
AACGTTCATC	GCAGCGTATA	GGAGAGTTAG	AGTGGTCTCT	CTGTGCTGTC	GCCGCCACAC	300
AGAAGAAGAA	GCCGGATGGG	TTCTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:597:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 529 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:597:

GAGAAGTGCG	AGAGGGGCCA	GTGTTGTTGT	TACCTGAAAG	GTAAGTGCAG	CCCACAAAAA	60
TGCAGTGAAG	AAGAAGATAT	ATGCATATGT	TTAAGTTAAT	ACAATTGAGA	TACATTTAGC	120
AGACAGAATC	AATAGAGTTG	ATGAGTGACT	GACTGGATGT	GTGGGGAGTT	TATATCACTC	180
CCAGGTTTTT	GACTTGGGCC	ACCGGGCACT	CAAGAAGGAA	AAAGAGGATC	CAGGGAGAGG	240
AACTTTTCTG	AGGACTGGGG	TAGGGCTGAA	CAGCTGCATT	CGAGACTGGT	GGAGGGTGGG	300
CTGGGCATGG	GATGCACAAA	TGGAAATTCC	ACTGGGTCTG	CAGCTCACAC	ATAGGCATGA	360
		CCCCAGTGCT				420
CATCAGCTGA	GAAGGGAAGG	AAGCCCATGT	GAGGACACTG	AAGAAGGAGT	GAGCAGACAA	480
TAAGAAGCCC	ACAGAAGACA	GAGAAGGAAC	AACTAGAAGG	AGGCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:598:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 454 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:598:

GAAAAAGATG	AAATCTGATG	${\tt GATTAGGAGC}$	ATCTGGACAT	TCGTCAAGTA	CCAATAGAAA	60
TAGTATAAAT	AAAACTCTGA	AGCAAGATGA	TGTAAAGGAA	AAAGATGGTA	CAAAAATAGC	120
ATCTAAGATT	ACAAAAGAAC	TTAAAACTGG	GGGAAAAAAT	GTTTCTGGAA	AGCCCAAAAC	180
TGTAACAAAA	TCCAAAACAG	AAAATGGTGA	TAAGGCACGG	TTGGAAAACA	TGTCACCTAG	240
ACAAGTTGTA	GAAAGATCAG	CAACAGCAGC	AGCAGCAGCA	ACTGGACAGA	AGAATTTACT	300
AAATGGAAAA	GGAGTGAGAA	ATCAGGAAGG	GCAAATTTCA	GGTGCCAGAC	CCAAGGTACT	360
CACAGGAAAC	TTAAATGTGC	AAGCCAAAGC	AAAGCCTTTG	AAGAAAGCTA	CAGGGAAGGA	420
TTCACCATGC	CTCAGCATCG	CAGAACCCCT	CGAG	•		454

- (2) INFORMATION FOR SEQ ID NO:599:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 411 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:599:

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GAATTCGGCC	TTCATGGCCT	AGGTCCTCAA	GCATTGCTTC	AATATCAATA	TCGTCTGCCA	60
${\tt TTTTCTCTAA}$	ACGCCTGTTC	CGGCCTTCGG	GCGCCTGTGG	TGCTCGTGTT	CGGGAAGAGA	120
TTGCTGCTGC	TGCTGCTGCT	GCTGCCGCCG	CCGCCGCTTC	TGTTGCTACT	GTTAAGCCCC	180
${\tt TAGGCCCAGG}$	CCGCGGAACC	GCCCAGCCCG	AATATCGGGT	TCCAAGGACG	GCTAGGCCCG	240
AGAGAATCTA	AAAAAAACAA	TGGAATTAGA	GAAGCCCACG	CGGGAGAGCA	GGACGGCGGC	300
TTCGGCAGCT	CAGGATCCAC	CCCNGCGACA	GCGTCGACAA	GTTCCCTGAA	ATGGCGGCCG	360
CTGCTTCCCT	GTACTCANAN	TCCACCCCC	GAATTCTAGA	CCTGCCTCGA	G	411

- (2) INFORMATION FOR SEQ ID NO:600:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 306 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:600:

GAATTCGGCC	TTCATGGCCT	AATTAAGCCT	GCCTACTTCT	ACAATGCATT	CTGTTACCTA	60
TTTGAACAGT	ATGTTTGTAA	CTATGGCAAT	GAAGTCAGTA	GATAGGAAAC	CAGTTATTCC	120
TTCTACCTTT	AAAAATTTTG	AGAACTTGCC	AACCAGGGAC	TAAAGCTATT	ATCTTGAACA	180
GAGTCCCTAA	AGCTAGTCTA	GTTTTTGCCA	CATCTGCAAT	GATTATTGTT	TAATTTCAAA	240
AGAATCCTCA	GGCTCTACAA	TCTAGGGGTG	GTAAATGTGT	TTCCACTATA	CTTGGGACCG	300
CTCGAG						306

- (2) INFORMATION FOR SEQ ID NO:601:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 443 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:601:

GAATTCGGCC TTCATGGCCT	AGGAATCTCC	TCTTAAACCA	GGTGAAGTGG	GAAAGCAGGG	60
ACCATACCAC CCTGAGTGAC	ATCTACCTGA	ATAATATCAT	TCCTCGATTT	GTACAAGTCA	120
GCGAGGACTC AGGAAGACTC	TTTAAAAAGA	GTAAAGAAGT	CGGCCAGCAG	CTCCAAGATG	180
ATTTGATGAA GGTCCTGAAC	GAGCTCTACT	CGGTCATGAA	GACATATCAC	ATGTACAATG	240
CCGACAGCAT CAGTGCTCAG	AGCAAACTAA	AGGAGGCGGA	GAAGCAGGAG	GAGAAGCAAA	300
TTGGTAAATC GGTAAAGCAG	GAGGACCGGC	AGACCCCATG	CTCCCCTGAC	TCCACGCCA	360
ACGTTCGCAT TGAGGAGAAA	CATGTCCGGA	GGAGCTCAGT	GAAGAAGATT	GAGAAGATGA	420
AGGAGAAGCA CCAAGCCCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:602:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 585 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:602:

GAATTCGGCT	TCATGGCCTA	CAACATGTCA	GTTTTTTTT	TCATTTTCCT	CAATATTTTT	60
CTTCTNGCTT	TCTCTTCTCC	TGGTTCCCAG	CCTCTACTCA	ATAGTCCCCC	CAGCTTTGTG	120
TGCTGGTCTC	GGGGCTTCAT	GGAGATGAAT	GGGCGGGGG	AGTTGGTGGA	GTCACTCAAG	180
AGATTCTGTG	CTTCCACGAG	GCTTCCCCCC	ACTCCTCTGC	TGCTATTCCC	TGAGGAAGAG	240
			TTCAGTTCCT			300
GTGGTACAAC	CTCTTACCCT	GCAAGTTCAG	AGACCCCTGG	TCTCTGTGAC	GGTGTCAGAT	360
GCCTCCTGGG	TCTCAGAACT	GCTGTGGTCA	CTTTTCGTCC	CTTTCACGGT	GTATCAAGTA	420
			GGGGAAGCGA			480
			CAGACAGGGA			540
			CCCACACATC		- Constant	585

- (2) INFORMATION FOR SEQ ID NO:603:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 368 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:603:

GAATTCGGCC	TTCATGGCCT	AGTCTGGTAG	TAAGGTGGAG	TGGGTTTGGG	GCTAGGTTTA	60
GCTCGGGGGA	GGTGGTGTTG	GGGGCCGCAG	GCTGCGCGGT	GCCTGGGTAC	ATCTCCAGGC	120
CCACGCCCCG	GGCTTGGGAA	GTCACATCCA	TGTCTCTGCG	CCGTGCAGCT	TTCAAGATTT	180
GCCGAAAGGC	TCCCAGAGCT	CTGTTTTAAA	TGGTGAATCC	ATCTTTAGAA	AGAAGCGTGA	240
TTCTCCTTGA	AGTGAGCCTG	GCATTTGTCA	GACAGGAAAC	TCCCCAGGAG	GAGCACCTGT	300
GGTGGTTTGG	GTTGGGTTTG	TTAACTGCAG	AGAGTGGGAA	GAACAGATGC	TCCTCACACC	360
GTCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:604:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 604 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:604:

GAATTCGGCC	TTCATGGCCT	AGGAAAGACC	ATCAGCCTGG	GAGTCAGTGA	ACCTGACTCT	60
GATCCCAGCT	CTGCCTCCAN	TCAGCTGTGT	GATGACAGGT	AGGTCACCTT	CCCTCTCTGA	120
GCCACAGTTT	ATCTGTCTGT	AAACAGGGGT	ATTGGACTGG	ATTCTCTGTT	ATCTCTCATG	180
TCTCTGTGAA	AGGTCTGTGT	TTTCAAATAC	TCCTTAGGGA	CATGACCTCA	CATAGAAAGA	240
GGGGGTGCCA	CGAACTGGAT	TCCCAGCACT	CCCCCTTCCC	AGCTCTGCTC	AAGCTGAGGG	300
ACCTTGGAAC	ATGGTACTTG	GACCTAAGTA	CTCTCTCTGG	GCTTCAGTGT	CCCCAGCTAT	360
AAAATGGGGG	AAATGCCTAA	CTCAGGAGGT	TGAGGTAAGG	ACAAAAGGAA	TTAATACATG	420
GAAAGTGCCT	GGAACAGTGC	CTGGCACAGT	CTGCTTTCAG	AAAAAGCTGC	AAGGTGGCTA	480
CTCTCAGCAG	ATATAAGTTA	ATGCAGGAAC	AGCAACTAGC	AGCTCTTGGA	CATGCAATAT	540
TTATATATTA	TTTTGCATCT	TTTACCCTTC	ACGGCACTGA	GCCTCACAAT	CCGTTGACCT	600
CGAG				•		604

- (2) INFORMATION FOR SEQ ID NO:605:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 495 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:605:

GCGCAGCCAG	CGCCTGCCTC	CGACTCGACT	CCACACCTGC	TTGCTACAGC	GGGTGAGGAA	60
GCAGGAAAGG	GGGAGGGAGG	GATGTCGTCT	GGATTCCTGT	AATAATTTGT	TTCATTGTTT	120
CCAATCGACT	TAGTCACCAG	GTTAAATAGT	AGCATAGACC	TTTCAAAAAA	GTAGCTAGCT	180
TATAAGTAGA	TGTATTGAAA	ACACCTGCTT	GTTGAGTCGT	AGACAATTCC	TCATTTACTG	240
TGTGAACTCT	AGGGGGTGAA	ACACGGGCGG	AGAGCGGCTG	TGAGCTCACG	CGGCTCCATC	300
CCCACAGCGG	CCCAGGGTCA	CTCGGGGCCA	TTAATCAGGC	CGCAGAGCTG	CCCTCTGAGC	360
CGGGCCGCCA	GCGCCCACAG	GGCCCAGACC	AGGGCTCCCT	GGGCGGGATG	TTTTAAATCG	420
CACAGGGACA	AAGGAAAGGA	AAGACGCTGG	GGCCCAAGCC	CGAGCTTATG	AAACGTTATC	480
AAGGAGCGAC	TCGAG					495

- (2) INFORMATION FOR SEQ ID NO:606:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 331 base pairs
    - (B) TYPE: nucleic acid
      - (C) STRANDEDNESS: double
      - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:606:

GAATTCGGCT	TCATGGCCTA	GACTTCCAAG	GACATGCTTC	GAACTCTGGC	CCAAGCCAAG	60
AAGGAATGCT	GGGATCGGTT	CCTCCAGGAG	AAGTTAGCTT	CAGAGTTCTT	TGTGGATGGA	120
CTTGATTCTG	ATGAGAGGTG	ACTACAATTG	CAAAGTAGAA	TTTGCTTTGA	CACCTGATGC	180
CAGGACAATA	GTATGTTACC	ATCCTTCTAT	AGACATTCCA	TATGAACGCA	CAAAACCTAT	240
CCCTTGACCA	GATCCTGTGT	ATAATAATGA	AGAAACACAT	GGTCAAGTGC	TGAAAACTAG	300
AGAAGAAAAA	AGTGAACACC	TGGAGCTCGA	G			331

- (2) INFORMATION FOR SEQ ID NO:607:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 632 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:607:

GAATTCGGCC	TTCATGGCCT	ACTGCCTCGG	CCTCCCGAGT	AGCTGGGACC	ACAGACGCCC	60
ACCACCATGC	CCGGCTAAAT	TTTTGTATTT	TTAGTAGAGA	${\tt CGGGTTTCAC}$	CGTGTTAGCC	120
AGGATGGTCT	CGTTCTCCCG	ACCTCGTGAT	CCGCCCGCCT	CGGCCTCCCA	AAGTGCTGGG	180
ATTACAGGCG	TGAGCCAACT	CGCCCGGCCA	GGAATCCCTC	CTCTGTCTGA	CCTAACTGCC	240
CTCTGCCCTG	GAGCTGCTCA	GCCTCTATCA	ATTTTTCTGG	CTCTCAGCGA	ACGTTTTCAT	300
TCAGTTGCAA	GACACAGAAA	CTCAAATTCA	AACCTGCTTA	CACAAAATAG	TGAATGTACT	360
GGCTCATGCA	CTTTTTAAAG	AGATGAGGTC	TGTTGTGCTG	CCCAGGCTGG	ATGTGAACTC	420
CCGGGCCCAA	GAAATTCTCC	TGCCTCAGTC	TCCTGAGTAG	CTGGGACCAC	AGGAGCATGA	480
CTGTAAGTCC	TGGTGTGAAT	CAGGCTCCAG	AAACAGCTTG	ATCCTGGTTC	CCAACAGTAT	540
GGTCAAAACT	CATTCTCTCT	TCTGTCTTCT	TCTCTATGAC	AGGTGCTCCC	TAAGAAGTGA	600
CAAAGAAGGC	CACTAACAGC	TCTGGGCTCG	AG			632

- (2) INFORMATION FOR SEQ ID NO:608:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 531 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:608:

GTATNGNTGA	AAATAAGAAA	AAATATTTCT	GAAATTCGGG	AACTTGAGAA	CATAGAAGAA	60
CACCAGTCTG	${\tt TAGATATTGC}$	AACTTTGGAA	GATGAAGCTC	AGGAAAATAA	AAGCAAAATG	120
AAAATGGTTG	AGGAACATAT	GGAGCAACAA	AAAGAAAATA	TGGAGCATCT	TAAAAGTCTG	180
			ATTAAATTCA			240
			CTTGCTGATT			300
CGAGGGAAAC	GACATTATGA	AGAAAAACAA	AAAGAACACT	TGGATACCTT	AAATAAAAAG	360
AAACGAGAAC	TGGATATGAA	AGAGAAAGAA	CTAGAGGAGA	AAATGTCACA	AGCAAGACAA	420
			TCTGCATCAA			480
CGATTAAGGC	AGAAGATACA	GGTAGAACAT	GCTAGTCAAG	GAGACCTCGA	G	531

- (2) INFORMATION FOR SEQ ID NO:609:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 330 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:609:

GTGACTTTGG	AACCTTGAGA	GTTAGATGAA	TAAATCAGAA	AAATGGAATT	AAATGTATCT	60
ACTTTATTAT	TGGTAAATCT	GGTTAGGATG	TGCAGCCCTA	ATCAGGCTTC	CTTAATTCCT	120
TCTCCACTGA	GTCTGGACCA	GCACTCTCCA	GTAGAACTTT	CTATGATGAC	GGAAATCCTC	180
TGTGTCTGCG	CTGATCAGTG	TGGTAGTTAC	TGGCCACATG	TGGCTGTTGA	GTACTTGAAA	240
TGTGGCCAGT	GTGGTGATGG	AATTGTGTTT	TTAATCTTAT	TTAATTTAAA	TTTAAATAGC	300
CAAATGTGGC	TAGTGGCTGT	TGTACTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:610:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 345 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:610:

GTGGAGGCTT	TCTTGATCAT	GGATGGTGAA	GATATACCAG	ATTTTTCAAG	TTTAAAGGAG	60
GAAACTGCTT	ATTGGAAGGA	ACTTTCCTTG	AAGTATAAGC	AAAGCTTCCA	GGAAGCTCGG	120
GATGAGCTAG	TTGAATTCCA	GGAAGGAAGC	AGAGAATTAG	AAGCAGAGTT	GGAGGCACAA	180
TTAGTACAGG	CTGAACAAAG	AAATAGAGAC	TTGCAGGCTG	ATAACCAAAG	ACTGAAATAT	240
GAAGTGGAGG	CATTAAAGGA	GAAGCTAGAG	CATCAATATG	CACAGAGCTA	TAAGCAGGTC	300
TCAGTGTTAG	AAGATGATTT	AAGTCAGACT	CGGGCCGAAC	TCGAG		345

turi Taraharan Marian Sasa Taraharan Sasa

- (2) INFORMATION FOR SEQ ID NO:611:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 633 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:611:

GAATTCGGCC	TTCATGGCCT	AAATGACCAN	ATCGAGAGGG	AGGACTATGA	GGACTTTGAG	60
TACATTCGGC	GCCAGAAGCA	ACCCAGGCCA	CCCCCAAGCA	GAAGGAGGAG	GCCCGAGCGG	120
GTCTGGCCAG	AGCCCCCTGA	GGAGAAGGCC	CCGGCCCCAG	CCCCGGAAGA	GAGGATTGAG	180
CCTCCTGTGA	ACCTCTGCTG	CCCCCGCTGC	CCCCTGACTA	TGGTGATGGT	TACGTGATCC	240
CCAACTACGA	TGACATGGAC	TATTACTTTG	GGCCTCCTCC	GCCCCAGAAG	CCCGATGCTG	300
AGCGCCAGAC	GGACGAAGAG	AAGGAGGAGC	TGAAGAAACC	CAAAAAGGAG	GACAGCAGCC	360
CCAAGGAGGA	GACCGACAAG	TGGGCAGTGG	AGAAGGGCAA	GGACCACAAA	GAGCCCCGAA	420
AGGGCGAGGA	GTTGGAGGAG	GAGTGGACGC	CTACGGAGAA	AGTCAAGTGT	CCCCCCATTG	480
GGATGGAGTC	ACACCGTATT	GAGGACAACC	AGATCCGAGC	CTCCTCCATG	CTGCGCCACG	540
GCCTGGGGGC	ACAGCGCGGC	CGGCTCAACA	TGCAGACCGG	TGCCACTGAG	GACGACTACT	600
ATGATGGTGC	GTGGTGTGCC	GAGGTCACTC	GAG			633

- (2) INFORMATION FOR SEQ ID NO:612:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 296 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:612:

AAATACTAGA	GATAAAGTAG	ATTCATGGCT	TGGTAAGGAA	ATTTTAAGCA	TTCCTTCAAA	60
GATTGACGTO	CTAAAATAAG	CATTGATGTT	TTGAGTTTTT	TTACACCTAG	GATTTTTAGC	120
TTGGGTGTGT	AGGTGAAGGC	CAAGACTCTC	TGCAGGAAAA	AGCTTATTTT	CAAACTCAGA	180
AAATAAAATO	TCAATCATAA	AAATCTACTT	CAACTTTAGC	AAAAAGAAAA	AAAAAATCAA	240
CAAAAAGTAT	ACTCTGTATG	CTGGGATTCC	GAGGTTCCAA	CACACTGTTA	CTCGAG	296

- (2) INFORMATION FOR SEQ ID NO:613:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:613:

GATCCAGTGC	TGCAGCTTCC	TTACTATGAA	ATGACAGCTC	CACTTCCTAA	TAGTGCATCC	60
CTCTCTTCTT	CACTGAATCA	TGTTCCAGAT	CTTGACGCTG	GACCCAGCTC	ATATAAATGG	120
		CTCTGACCTT				180
						180
GCATCCGTGT	CTTCCTCACT	GAATCATGTT	CCAGATCTTG	AGGCTGGACC	CAGCTCATAT	240
ATAATGGACT	CGCCAACAAC	CCCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:614:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 272 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:614:

GGTGGAAACT	ATCCAAGAGG	CCTTCTGAAT	TCCTCTGACA	TATATTTGAG	AAACTGGGCT	60
ACTGAAAGCC	CTAACCCCAC	TTGGCTGCAT	TTTATTTGGT	AACCAGTGAG	GCAAACACCC	120
TTGCCAGACC	CCTACCATCC	ATCTTGATGT	GGTTCCTGCA	CTGGACACTG	CTTGGGTACG	180
GGCCTGCCCA	GATCTTGGGA	ATGTGGGCAG	TGGCTCCTCT	GAAGCACCAG	TGGGCAGAGG	240
ATGAGTCATG	GTATCCTCCC	GGCACCCTCG	AG			272

- (2) INFORMATION FOR SEQ ID NO:615:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 521 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:615:

GAATT	CGGCC	TTCATGGCCT	AGTATTTTTG	TAGAGACGGG	GCTTCAGCAT	ATTGGCCAGG	60
CTGGT	CATGA	ACTCCTGACC	TCAGGTGATC	CTCCTGCCTC	AGCCTCCCAA	AGTGCTGGGA	120
TTACA	GGCAT	GAACCACTGC	ACCCAGTCAA	GGGTATAAAA	TTTCTACACA	GCACAGGCAG	180
ATTCT	GGCTG	TGGAAGACCC	CAAGATTCTT	TGGAATTGTG	ATGCTTTATT	TAATTTAGAG	240
			CTTCCCCTTC				300
TAGTA	AAGCA	AATTTAAGAT	AATTTTCTGC	TTTGAGATTT	AGGGATAGAT	TTTTTAACAT	360
AGTCT	TGCTG	ATAATGATAG	ACATCCTGGG	ATGTTGGAAA	TTAGGAAACT	TGAACTTTTA	420
TTTGC	ACAGA	CTGAGAATTA	TGACTGAGGA	AAAGTTAGAG	GATCAGAAAA	AATAAATTTA	480
TAAAT	CACAA	GCTAGGCTTG	GCAATATGAG	TGGCGCTCGA	G		521

- (2) INFORMATION FOR SEQ ID NO:616:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 577 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:616:

GAATTCGGCC	TTCATGGCCT	AGATTGGAAG	GTGTGGTAGG	CAGAATTCTG	GCCCCCATGA	60
CTGCCCCTTC	CCCTCACACC	CCCCGGGTTG	CTCCAATGGT	TATGTCACGT	TGCTTGGCAA	120
AAGGGACTTT	GTAGATGTCA	TAAAAGGTGA	CTAATCAGCT	GACTTGAGAG	AGTTTATCCT	180
GGATTATCCA	AGGGGCCCAG	TGTAATTCCA	AGAGCCCTCA	AGAGCAGAGC	TGGAGAGATG	240
CCGCGCAGGA	GGCCTGGGTG	CCGTTTCGGA	GCAGGATGGA	AGGCGGTGAA	TCCCGCCTCC	300
AGCATGGAGC	TCGGGAGAGG	CCCTGACTGC	AGATGGAGAG	GCTGCCCTGG	CCGCAGCGCA	360
CGGGGCTCCT	GACCCACAAA	AATCGCGAGA	TAATGAGTTC	ATGTTGTTTG	AAAGTCCGTC	420

ATTTCTGGTA ATTTGCTATA TAAAACTATT GCTATACGAT TAAAAACTAA TACAGAAGAA

480

TATTTCTTTA ACATTATGTT AAAAAGGAAA AAAGCTAACA TTTTCTTTAT AGCAAAACAC TGCCATGATT TACATTAAAA TTAGGAACAT ACTCGAG	540 577
(2) INFORMATION FOR SEQ ID NO:617:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 269 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:617:	
GAATTCGGCC TTCATGGCCT AGCACATACA GTATAAAAAA TAATCACCCA CCATAATTAT ACCAAATTCC TCTTATCAAC TGCATACTAA GTGTTTTCAA TACAATTTTT TCCGTATAAA AATACTGGGA AAAATTGATA AATAACAGGT AAGAGAAAGA TATTTCTAGG CAATTACTAG GATCATTTGG AAAAAGTGAG TACTGTGGAT ATTTAAAATA TCACAGTAAC AAGATCATGC TTGTTCCTAC AGTATTGCGG GCCCTCGAG	60 120 180 240 269
(2) INFORMATION FOR SEQ ID NO:618:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 469 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:618:	
GAATTCGGCC TTCATGGATT CTGCTTTGAA TATAGCTACA GAAATAAAGG ATGGACTACA ATGTGGGACA GTGTCTTCTC AGAAACAACC AGCCTTGAAG GCTACAACTG ACGAGGAAGA TTCTGTTTCG AATATAGCCA CAGAAATAAA GGATGGAGAA AAATCTGGGA CAGTGTCTTC TCAGAAACAA CCAGCCTTGA AGGCTACAAC TGACGAGGAA GATTCTGTTT TGAATATAGC CACAGAAATA AAGGATGGAG AAAAATCTGA GACAGTGTCT TCTCAGAAAC AACCAGCCTT GAAGGCTACA ACTGACGAGG AAGATTCTGT TTCGATTATA GCCACAGAAA TAAAGGACGG AGAAAAATCT GGGACAGTGT CTTCTCGGAA AAAACCAGCC TTGAAGGCTA CAAGTGATGA GAAAGATTCT TTTTCGAATA TAACCAGAGA AAAAAAGGAT GGACTCGAG	60 120 180 240 300 360 420 469
(2) INFORMATION FOR SEQ ID NO:619:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 448 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:619:	
GAATTCGGCC TTCATGGCCT AGTCCGTGTT GTGGTCAGTG TGTGAACTCC ACACTGGACA GTAGCTGAGT TTGGGCAGGG ATGAGGAGTG GAGGGGTGAG GTCTAAGGTT CAGAAAAAGT TTGTGTTTAA GAACTTGGTT ACACTGGAGT CAGTTGCAGA CCAGAATGGA GAAAAGCACT CCTGACTTGA GTTGGGTGTG CTTGGGACTG GATCACCTTT GACCTTCTTT ATTTACCTAA	60 120 180 240

CTTATTTGGG GATGCTTAGC	GAGCAGGGGA GGCAACACTA TT CACTGGTCTC TATCTTTGCC TT TAATTCCTCT TAAAAAAAGA AT CAGCAGTGTG GTCTCGAG	CAGCTGAA '	TCAACATCTA	AGATGTTTTA	300 360 420 448
(2) INFORMA	TION FOR SEQ ID NO:620:				
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 457 base p  (B) TYPE: nucleic acid  (C) STRANDEDNESS: doub  (D) TOPOLOGY: linear	pairs l			
(ii)	MOLECULE TYPE: cDNA				
(xi)	SEQUENCE DESCRIPTION: SE	EQ ID NO:6	520:		
TGAACAGAAC GGTAATTTTA AACTGTGAGA ACATGCATCG GCATACACTA TAATGACCTG	TTCATGGCCT ACTTAAATCC ATCACATTAAAT TTAAGCCAAA AAAGCCAAAAA TGTTGGATAA AAACTTAAAGAA AAACTTAAAAAAAAAA	CACCAATA ( AAAAACCT / CACAGAAG / TATGTAGC / AGGAGCCT ( TGGATGTC /	GGAATGTTGG ACACCTATAA ACCATAGTGA AAATGTGAGT CTTGACTTGA	AGGTAGAGAA TACCAGAGAA GAGTGAGTCC TTGATCCGTT CAAAATCTCT	60 120 180 240 300 360 420 457
(2) INFORMA	TION FOR SEQ ID NO:621:				
(ii)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 287 base p  (B) TYPE: nucleic acid  (C) STRANDEDNESS: doub  (D) TOPOLOGY: linear  MOLECULE TYPE: cDNA  SEQUENCE DESCRIPTION: SE	oairs ! le	521:		
,,					
AGTTTGGÄTT GAGGGTTTTC AGACAGAAGT GTACTATGAC	TTCATGGCCT ACTCTCTGAT TT. AATTAGACTT AAGAAAACAA CT. TTTGCATGAG AATTGTATGT AA AAGCCTGGAC ATTGTTAAAT AG AAACGTGCTT TATTCTTCTA AC TION FOR SEQ ID NO:622:	AACTGAGG ( CCAGTGAT ) TCCCTGCT	GTTTTTTTG ATGATTATTC TTAAGGGACT	TTTGTTTTTT CTGAATGTAC	60 120 180 240 287
(i) <sub>.</sub>	SEQUENCE CHARACTERISTICS  (A) LENGTH: 328 base p  (B) TYPE: nucleic acid  (C) STRANDEDNESS: doub  (D) TOPOLOGY: linear	oairs 1			
(ii)	MOLECULE TYPE: cDNA				
(xi)	SEQUENCE DESCRIPTION: S	EQ ID NO:	622:		
CAGGAGTAAT	TTCATGGCCT AGTAGGTGTA TC	AAATATAA	ACAAGAATGA	TGTGCAAAAA	60 120

TTTTGAAAAA	TGTTGGGAGT	CTGAAAAATT	CCAGGCACTC	TGGATAAATG	AGTATGGAAG	240
AATCCTCCAA	AAGAACTTTT	AGTCTACAGG	GGAACATTAA	TAAGCAATCA	GGGACTTGAG	300
ACCTACAGTG	CTGTGGAAGA	TTCTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:623:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 375 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:623:

i	GAATTCGGCC	TTCATGGCCT	AGGACGTTTG	GGTTGTTTCC	ATCTCAAATA	AATAAATAAA	60
	TAAAAGTCTA	TAAAAACAGC	TGGGCCCAGG	CATTTAAAAA	AATGTTCGGT	CTTCTAGTTT	120
	AGTCTTTTAT	TGTCTATGCA	AATTCTTTGG	CTATTGAACT	ATCCAAGCTT	TCTCTTTTTA	180
	AGCTTTTGGG	GAATAGGTTG	CAATACATTT	CTTGTCTACT	GTTTCTCTTA	GTGTTTTCTA	240
	ATTCTAACCC	ACTGTTTTTG	GAATTTCTAT	TAGATGGTTT	TGCAACTTCT	GCATCTATCC	300
	TCCATGCACC	TTCACATTTC	CTTCACAGTT	TTCGTGCTGT	TTTCCTTGTG	TGCTACATTC	360
	TGCACAGGAC	TCGAG					375

- (2) INFORMATION FOR SEQ ID NO:624:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 763 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:624:

GAATTCGGCC	AAAGAGGCCT	ACCTCAAAGG	ATTGGCTAAA	AGCAAGCAAC	TGGATTGAAC	60
ACCCTAAGAA	GAAAGATTCA	CACTGCACCA	GGAGACATCA	GAAAGAATGA	AAACTCTGCC	120
GCTGTTTGTG	TGCATCTGTG	CACTGAGTGC	TTGCTTCTCG	TTCAGTGAAG	GTCGAGAAAG	180
GGATCATGAA	CTACGTCACA	GAAGGCATCA	TCACCAATCA	CCCAAATCTC	ACTTTGAATT	240
ACCACATTAT	CCTGGACTGC	TAGCTCACCA	GAAGCCGTTC	ATTAGAAAGT	CCTATAAATG	300
TCTGCACAAA	CGCTGTAGGC	CTAAGCTTCC	ACCTTCACCT	AATAACCCCC	CCAAATTCCC	360
AAATCCTCAC	CAGCCACCTA	AACATCCAGA	TAAAAATAGC	AGTGTGGTCA	ACCCTACCTT	420
AGTGGCTACA	ACCCAAATTC	CATCTGTGAC	TTTCCCATCA	GCTTCCACCA	AAATTACTAC	480
CTTCCAAATG	TGACTTTTCT	TCCCCAGAAT	GCCACCACCA	TATCTTCAAG	AGAAAATGTT	540
AACACAAGCT	CTTCTGTAGC	TACATTAGCA	CCAGTGAATT	CCCCAGCTCC	ACAAGACANC	600
ACAGGTGCCC.	CACCCACACC	TTGTGACAAC	TACACNAGCT	CCACCATCTT	CCTCAGCTCC	660
ACCAGAGACC	ACAGTNGCCC	CACCCACACC	TTTTGCAACT	ACACNAGCTC	CACCATCTTC	720
CTCAGCTCCA	CCAGAGACCA	CAGCTGCCCC	ACCCATCTTC	GAG		763

- (2) INFORMATION FOR SEQ ID NO:625:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

60	GCAAGGCCCT	TGGGGTGGGG	ATGTGCGGTC	AGTAGTTTCT	AAAGAGGCCT	GAATTCGGCC
120	GCCATTTCCT	GCAGCAGAGA	GCAGTCGCTG	CACGTTGACA	TGGTTTCCAC	TGTGTTCCAC
180	GCACAGGAGC	ATCTCCACTG	AAGATTCTCT	GACTCTGTGG	TCTGTTCCAG	GTCATGCTGG
240	GTTGGGAGCC	CCCCAAGCCT	AGATCTCATC	CAGGCAGAGC	GAAGGACTCA	AGAGGAAATG
300	TAGCACATGC	TCAGGTTTTG	ACTAAGTTCT	TATTGTGAAC	GTCGAAACAT	ATTACTTTGG
360	AGGATGTTGA	CTTCTTTCAA	TTTGCTGGGC	TAGAATATCG	AGAGTTCGTC	TTTCATTTGT
420	ATCTAAATCG	TTCCCACTAT	ATACTCTGTT	TTGTGGTCTG	TTATTGGTTT	TCTTCTTGCT
476	CTCGAG	TGGACGGGGC	AGAACTCTTT	CTGATCGATG	CGAATAAATC	TGATCCTAGT

## (2) INFORMATION FOR SEQ ID NO:626:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 234 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

GCGATTGAAT	TCTAGACCTG	CCTCAACTGT	CTGGTTTCCT	GTAAAATAAA	CACATTGTTT	60
${\tt TATATTTTA}$	GGGAACAAAA	AGTGCTGCTA	TAGGGTTCAA	AGTTTTCCTT	CTGAACACTT	120
TTCCGAAACA	AATTACCCCA	AAGACACATT	TTGAATATCC	TGGTCACATC	TTTGGATCTG	180
TAAAATATAC	CTTTTAGTAT	GGCACCTGTT	AAAATGCAAA	GCAAAAACCT	CGAG	234

- (2) INFORMATION FOR SEQ ID NO:627:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 583 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

GAATTCGGCC	TTCATGGCCT	AGGCCTTGTG	AATCATTCAG	CATAAGGAAC	TGTCAATATT	60
TTTTTGAGCT	GTCAGAAATC	CATTTAGTGA	TTTTCGACAA	TTCAAAAAAA	TATTTCTGAC	120
CGCTTGATTC	AGTTCCTAGT	GAATTAGGGA	AGAAGAGGAA	TAAAAGAAAT	ATATCAATCT	180
AAATTATGAA	CCCAGAGTCT	AGCTTCCTGA	ATTCTTCTCT	GTGCTTAAAC	GAACAACAGG	240
ATGTTGAGGT	TCAAAAATAC	TCTCTTCTAT	TTCCCCCCCT	TCCTTCCCTT	TTCTTTCCTT	300
CTCTTCCATT	. CCTCGAAAAG	ATAATAAAAC	AGAATGTGCC	TAGAGCTTCT	GGAAAGAATA	360
CAGTCCTGCT	GATACTAGAA	CTCAGTGAAA	TTTGCACCAG	ATTTCTGAGC	TACAGAACTG	420
AAGATAATTC	ATTTATTTCA	AGCCACTGAG	TTTGTGGTAA	ATTTGTTACA	GTAGCAATAA	480
AAATCTAATA	CATGCCTTCT	ATACCAGAAG	TACACATCCA	CGTGACCATT	CCTGTCCTCA	540
CCCCACACAC	ACATACACAC	ACACACACAC	ACGCACACTC	GAG		583

- (2) INFORMATION FOR SEQ ID NO:628:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 295 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

GAATTCGGCC	TTCATGGCCT	ACCTGCCTCG	AGTTCCTACT	GCCCCGGGC	GGCCTGCACA	60
GAGCTGCTGC	CCTCCAGAGA	CTGTGAATCC	CAAGCCTGAC	TCAGTGGACT	GCTTCCTGTT	120
CCCCTCCCTC	CTCTTCCTCA	CCTTGTTCTG	CACCCTCAAG	CCTTTCTCCA	ATGCCTCCCA	180
GGAGGATTTG	GGGACTTTCT	CCCTGGGGCG	CCCAGATCCA	GCTCGGAGGC	CTCACTGGGA	240
CCTGGCAAGG	CCTGACCTCC	CGCCCAAACT	TGCTTCTGTA	GCCCCCCTAC	TCGAG	295

- (2) INFORMATION FOR SEQ ID NO:629:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 344 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

GAATTCGGCC	TTCATGGCCT	AACCTGTTGC	TTCCCCTGGG	ACTGAAGGCA	GAAGTGACTC	60
CCGAAATTCT	CTTTCTGGAC	TCAGAAGGAA	ACCAAAGCAA	TTGATGACAC	CGCATCCCAT	120
ACTAAAAGCT	ATGGAAGAGA	GAGCAATTCA	ACGAGCTGAA	TGTAGGCGGA	TCTTGGCAGA	180
GAAGNAGAAA	AAACAAGAAG	AAGANAAATT	GGCCCAGTTA	AAGGCCCAAG	AGGAGGAACG	240
TCAGAAAAGG	GAGGCAGAAG	AAAAGGAGGC	ACAGCTTGAA	AGAAAACGAG	AAGAGAAGAG	300
ACTGAAGAAA	ATGAAAGAAC	TTGAGAAGCA	GAAGAGAACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:630:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 257 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

GAATTCGGCC	TTCATGGCCT	AGTTCTTCCT	TAGGAACAAG	GGCAGGACCT	CAAACAGTCC	60
AGAGGAGAAG	CCTGGGGTGG	TCAGGGAAGG	CTTCCTGGCT	GAGAGGACAG	GCTTAGGGGC	120
ACCTTGAAAG	TTCAGGCTGA	CTGGGGCTAG	GGGCATGTGG	GTAACAGGTT	AAAGGGGGGG	180
GGGCTGGAAA	ATGCAGACAC	CAAAGACCCT	TCAATATGAG	GCCAAGAAAG	GAAGGTTCAG	240
AACAGGGATC	ACTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:631:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 326 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

CTTCCAAATC	CATGGGAACC	ACCACACCAC	CTACACCAAA	TCT TCCC CO	mama as ams a	_
						6(
					ACCTCACCAG	120
AAACATCAAT	GAGAGAGGTG	AAAGCGGACG	GAGCTAGCAC	CCCCAGGTTA	AGAGAACAGG	180
ACTGTGGTGA	ACCTGCCTCG	CCAGCAGCAT	CCATCTCCAG	ACTCTCTGGG	GAACAGGTCG	240
ACGGGAAGGG	CCAGGCAGGC	AGTGTATCTG	AAAGTGCGCG	GAGTGAAGGA	AGGATTAGTC	300
CAAAGAGTGA	TATTACTGAG	CTCGAG				326

- (2) INFORMATION FOR SEQ ID NO:632:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 480 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

GAAAAAATGG	AAGAATTTGT	TTGTAAGGTA	TGGGAAGGTC	GGTGGCGAGT	GATCCCTCAT		60
GATGTACTAC	CAGACTGGCT	CAAGGATAAT	GACTTCCTCT	TGCATGGACA	CCGGCCTCCT		120
ATGCCTTCTT	TCCGGGCCTG	TTTTAAGAGC	ATTTTCAGAA	TACACACAGA	AACAGGCAAC		180
ATTTGGACAC	ATCTCTTAGG	TTGTGTATTC	TTCCTGTGCC	TGGGGATCTT	TTATATGTTT	•	240
CGCCCAAATA	TCTCCTTTGT	GGCCCCTCTG	CAAGAGAAGG	TGGTCTTTGG	ATTATTTTC		300
TTAGGAGCCA	TTCTCTGCCT	TTCTTTTTCA	TGGCTCTTCC	ACACAGTCTA	CTGCCACTCA		360
GAGGGGGTCT	CTCGGCTCTT	CTCTAAACTG	GATTACTCTG	GTATTGCTCT	TCTGATTATG		420
GGAAGTTTTG	TTCCTTGGCT	TTATTATTCT	TTCTACTGTA	ATCCACAACC	TATTCTCGAG		480

- (2) INFORMATION FOR SEQ ID NO:633:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 307 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

GAATTCGGCC 1	PTCATGGCCT	AGCGGGATCG	TATCACTACG	CACGTGGCGT	CAATGACAAA	60
GACGCCTTCC (	CCACGGGACA	GGCCCTGGGA	ACTGCGGGGC	AAGGTGTGGG	CACGGCGGGT	120
CGCCTTCCAA (	CCTCCAGGG	TCTCCGGTCC	TGCCCCCTCT	CCAAGACCCA	GAGATTCTCT	180
CCATCCGGTG (	CCTCCGGGAG	CCCAGGGTCT	GGGGAGTGTC	TGGCTATGGC	GGGGCGGCTG	240
CTTTTTAGGG (	GAGGGAATCC	AGCATTTGGG	AAACCAGATC	TGTTCTCCTT	CTTTCCCTTC	300
CCTCGAG				•		307

- (2) INFORMATION FOR SEQ ID NO:634:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 458 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

CCTCTGCAAG	AAATGCCTAA	GCGTATTATC	AGGAAGTGGA	ATTATAAAAT	GTTTCCAGAT	60
CAAATTAAGC	ATCTACAGGT	GAATTAATAT	AGAATTAAGC	TTAGAAAGCT	TAAGTAGAAG	120
TTGAATGAAT	TGTGTTCATT	CTTTGAAACC	CATTGATTTG	CAAAACCAAT	ATTCCACTGT	180
CTATAGGAGG	CAATTCAGAC	TGAAAATAAT	TTAGAAAAAA	AAATAGTCCA	GAAAAAAAA	240
${\tt TAGTTCTAGA}$	GATAAATAGG	TCATTTGAAG	ACTAACCTCT	GCCATTAGGG	GTTTCTAAAG	300
ATAGGCTGAC	TCTATCTATT	TAATAATTAT	TTTGTTCATT	AACTCCTTGC	ATATAGAATT	360
${\tt GTAACTGATA}$	CCAGCCAGGT	ACGGTGGCTC	ACGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	420
AAGGCGGGCA	GATCACCTAA	GGTCGGGAGT	CTCTCGAG			458

- (2) INFORMATION FOR SEQ ID NO:635:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 343 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

GAATTCGGCC	TTCATGGCCT	ACCCACTCTC	ACTTTGTACC	TCTGTCAGTT	ATCTCCTCTT	60
TACCCTTCTT	TCAACGAGCA	TACCACCGGC	CCTCCCAGCA	CCTATGGCCC	AAGCCAGTTG	120
TTTGCAAATT	TTATACTGTG	ACACAGGACA	ATTTACACAC	ACATACACAG	TTTCACTTGT	180
GACATACTTT	TTTTTTGAGA	TGGAGTCTCA	CTTCATTGCC	CAGGCTGGAG	TGCAGTGGTG	240
TGATCACACC	TTATTGCAGC	CTCAAACTCC	TGGGCTCAAG	TGGTCTTCCT	GCCTCAGCCC	300
CCCTAGTAGC	CAGGATTACA	GGCGTGCACC	ACCATTTCTC	GAG		343

- . (2) INFORMATION FOR SEQ ID NO:636:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 402 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

GTGGATAACA AACAAACAAA	TCTGATGCTC	CCTGAGTCAA	CTGTTTATGG	TGATGTGGAC	60
CTTAGTAACA AAATCAATGA	GATGAAAACC	TTCAATAGCC	CAAATCTGAA	GGATGGGCGT	120
TTTGTCAATC CATCAGGGCA	GCCTACTCCT	TACGCCACCA	CTCAGCTCAT	CCAGTCAAAC	180
CTCAGCAACA ACATGAACAA	TGGCAGCGGG	GACTCTGGCG	AGAAGCACTG	GAAACCACTG	240
GGACAGCAGA AACAAGAAGT	GGCACCAGTT	CAGTACAACA	TCGTGGAGCA	AAACAAGCTG	300
AACAAAGATT ATCGAGCAAA	TGACACAGTT	CCTCCAACTA	TCCCATACAA	CCAATCATAC	360
GACCAGAACA CAGGAGGATC	CTACAACAGC	ACAGAGCTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:637:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 290 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

GCTTCCTCGC A	AGCAAGCGGC	TGGAGATAGA	GAAGAGCTTA	CTGGTGCGAG	CGTCCGTCGA	60
CCCCGTCGCC G	CTGACCTAG	AGATGGCAGC	CGGTCTCACC	GACATATTTC	AGCATGATAC	120
ATACTGTGGT G	GATGTCTGGA	ACACCAACAA	ACGCCAGAAT	GGCAGACTCA	TGTGGCTCTA	180
TCTCAAATAC T	TGGGAACTCG	TTGTCGAACT	GAAGAAGTTT	AAGAGAGTAG	AGGAAGCCAT	240
ACTAGAAAAG T	TAAGACAAGA	GTGAAATCAA	ACTGCTTTTA	GTGACTCGAG		290

- (2) INFORMATION FOR SEQ ID NO:638:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 463 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

GTCGAGAAAA	TGGGGATAAT	GGAGAAATTG	TGGGCAAGCT	GGCTTCCTGG	GAAGGGACTA	60
ATTGAACAAG	ACAATGATTT	ATCTTTTCGG	GGTTCAGAGG	CAGCTTGTTA	ATTCGAATTA	120
TTTTCTTTAT	TTTTGCCCAC	AAGTGTTTGG	TTGTCCTTTT	CTCTGGCTTT	TTACCTGATC	180
AGGCTGCAAG	CTGCAAAGGT	GTGGCTTGTG	CTGCAGATTT	GTAATAAAAG	ATGACAGGTG	240
AGAGAGACAG	TGGTGGAACT	GGTAGAGCTT	GCACACCCAC	ACGGTGTGGC	TGCTCGGGAG	300
GCTGTCTAGT	GCACCTGCCA	ACAGAGCACA	GATATCCTCT	CTTCCTCATT	TCAGATTCCT	360
CCTTCCAGCT	GTTTACTAAA	CAGCAACAAA	AACACCCTCT	TGGCTGTAAC	TTGTCAAATA	420
AAGTCCCTGC	AAAGTGTATA	AGATTTTCCT	CCCCAACCTC	GAG		463

- (2) INFORMATION FOR SEQ ID NO:639:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 513 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

GCGAGGGAGA	TGGCAGCCTG	GGCTTTAGCA	GCAGGGAGGA	AGGTGAANAA	AGAACCGGGG	60
CTTGCAGCAG	AGGTGGGTTC	TGCCTTAAAG	GCAGAGACCC	CCAACAACTG	GAATGCCACG	120
GAAGACCAGC	ATGAGCCTAC	CAAACCTTTG	GTTCGCAGGG	CTGGAGCTAA	TTCTCGCTCC	180
AGGAGAAAGA	AGCAGAAGAA	GAACTCCAGG	CAGGAAGCAG	TGCCCTGGAA	AAAACCCAAA	240
GGCATCAATT	CCAACAGCAC	AGCTAACTTG	GAGGATCCTG	AGGTGGGTGA	TGCTGAAAGC	300
ATGGCGATCT	CAGAGCCGAT	CAAGGGCAGC	AGAAAGCCCT	GTGTGAATAA	GGAGGAGTTG	360
GCTTTGAAGA	AGCCCATGGC	GAAATGTGCC	TGGAAGGGTC	CCAGAGAGCC	ACCTCAGGAT	420
GCCCGGGCAG	AAGCCGAGAG	CCCAGGAGGC	GCCTCTGAGT	CAGACCAAGA	TGGTGGCCAT	480
GAAAGCCCAC	CAAAGAAGAA	GGCCGAGCTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:640:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 510 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC	TTCATGGCCT	ACACCTCAGC	CTCCAGAGCA	GCTGGGACTA	CAAACGTGTG	60
CCACCATGCC	GGGCTAATTT	TTGTATTTTC	AGCAGAGGTG	GGGTTTCACC	ATGCTGCTGG	120
CCAGGCTGGT	CTCGAACTCC	TGGCTTCAAG	TAATCTGCCC	ACCACAACCT	CCCAAAGTGC	180
TGGGATTACA	GGTGTGAGCC	ACTGCGCCCA	ACCAAGAGCT	CCTTTTTGTT	TTTCTTTTTT	240
TGTGAATTCG	GATTCTTTAT	ATTCAGGAGT	TTTACTTAAA	CTTTGAATCT	GAAAGAAACT	300
TTAGGAGGAG	CTCATAGATT	TGTGGGAAGA	AGCAAATCTA	CATTATTTTC	TCTCTTCTAA	360
AATCATATTC	CATGTATTTT	GATCTTTTAC	TGAATTTTAA	CACATTGTTT	CATCACTAAC	420
ATAAAGTGTT	TCAATAGTTT	TTGTAACTCA	CACACAAATA	CTGGATTTAA	AAGTTATATA	480
CCTGAGTATA	TTTTTATGGC	AGGTCTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:641:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 308 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

GAATTCGGCC	TTCATGGCCT	AGTGTTCCCA	GCCAGTCTCT	ATTCTCTCAC	CTAACACTCT		60
CAAGGAGATA	GAAGCTTCAG	CTGAAGTCTC	ACCCACCACG	ATGACCTCCC	CCATCTCACC	1	20
CCACTTCACA	GTGACAGAAC	GCCAGACCTT	CCAGCCCTGG	CCTGAGAGGC	TCAGCAACAA	. 1	80
CGTGGAAGAG	CTCCTACAAT	CCTCCTTGTC	CCTGGGAGGC	CAGGAGCAAG	CGCCAGAGCA	2	40
CAAGCAGGAG	CAAGGAGTGG	AGCACAGGCA	GGAGCCGACA	CAAGAACACA	AGCAGGAAGA	3	00
GGCTCGAG						3	80

- (2) INFORMATION FOR SEQ ID NO:642:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

${\tt GAATTCGGCC}$	TTCATGGCCT	AGTTAGATGA	AAATCTAAAG	GATGAATACT	TTGAGGAAAT	60
CATGGAAGAA	TATGAAGATA	TTAGACAGGG	CCATTATGAG	TCTCTCAAGG	AGAGGAGATA	120
CTTACCCTTA	AGTCAAGCCA	GAAAAAGTGG	TTTCCAAATG	GATTGGCTGT	CTGAACCTCA	180
CCCAGTGAAG	CCCACGTTTA	TTGGGACCCA	GGTCTTTGAA	GACTATGACC	TGCAGAAGCT	240
GGTGGACTAC	ATTGACTGGA	AGCCTTTCTT	TGATGTCTGG	CAGCTCCGGG	GCAACCCCAC	300
TCGAG						3.05

- (2) INFORMATION FOR SEQ ID NO:643:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 301 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

GCGATTGAAT	TCTAGACCTG	CACCCAGCCA	ACACTGAGAG	ATTTTAATGA	GTACTTTTAT	60
CCACCTGACC	ACCATCATTA	CCTATCACCT	GTCATTCTTC	ATCCACCCTA	CATCCATCCT	120
TCATCCCCCC	ATCATCCACC	CATCTATCCT	TCATCCATCC	ATTCATCATG	GAACCATTAT	180
CCATCCAACT	${\tt ATCATCCAGC}$	CAGCCAGAAA	TGACCCATTC	ATCTTCATCT	CTCATTTCCT	240
CTCTCTAAAC	CAGTTCTTAA	TCTGGGGCCA	AAGTCCTACC	CACACATCCC	TTAGTCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:644:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 408 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

60
120
180
240
300
360
408

- (2) INFORMATION FOR SEQ ID NO:645:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 364 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

GAATTCGGCC '	TTCATGGCCT	AGTTATGTGA	TTAGGAGTAG	GGTTAGGATG	ANTGGGAAGA	60
AGAAAGAGAG	GAAGTAAAGT	TTAATTATGC	CTTTTTGGGT	TTATTATCCC	TGATGCATGT	120
GGCCCCCCAC :	TGCTGTGTCC	TTCTCCTGTT	GGCTAGGGTT	AGACCACACA	GGCTAAACTA	180
ATTCCGATTG (	GCTAATTTAA	AGAGAATGAC	GAGGTAAGTG	TTTTGGCGGG	AAAAATGGTT	240
ATGACAGAGC A	AGGTAATAGG	AATGAGTTAG	${\tt GGTGGAGTAG}$	GTAATCGGAA	TGAGTCAGGG	300
TGGAGCAGGT A	AATTGGAATG	AGTCAGGGTA	GAGCAGGTAA	TCGAAAAAGG	TTGCTTTGCT	360
CGAG .						364

- (2) INFORMATION FOR SEQ ID NO:646:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

GAATTCGGCC TTCATGGCCT AGGAGTGCAT TTGGATCTAG TGTTTTCTAT CAATCTGTCT GCTGATGTG CACTACTGCA CCATTTACCA CAACATTAGA ATATGTCTGA GTAACTGGTT GGCTTAGATT TTTTGCATTG AGTCCCACCC CATTTTCCAG AACTTTCATG GCTATTCTTA TATGTTTGTT TTCCGTAAGA TCTTTAGGAT CAATTTGTCT AGTTCTAAAG AGGAAATTCT GATATTATTG ATTTAGTAAC TTTCCATGAA AAAAACCTAC CATCACAGGA AAGATGCACA TTAATTACAG GTAGCTCGAG	60 120 180 240 300 320
(2) INFORMATION FOR SEQ ID NO:647:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 267 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:	
GAATTCGGCC TTCATGGCCT AGTCAGTGGC TAGATTGATT GATCCTCCAG AATTAGACAC TCACATGTTA ACACCAGTCT CAGTTGGAGG GCTGATAGTA AACCTTATTG GTATCTGTGC CTTTAGCCAT GCCCATAGCC ATGCCCATGG AGCTTCTCAA GGAAGCTGTC ACTCATCTGA TCACAGCCAT TCACACCATA TGCATGGACA CAGTGACCAT GGGCATGGTC ACAGCCACGG ATCTGCGGGT GGAGGCGAGG TCTCGAG	60 120 180 240 267
(2) INFORMATION FOR SEQ ID NO:648:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 321 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:	
GAATTCGGCT TCATGGCTAC TTTTGGTAAA GCATACCCAA CCTTCAGTTA GAATATCTCC TGATAATAAG AAAGATCTCA TTGAAATTTA TTAATTCTTT TGTGTCTAGT AGATAACTTG GATGGCACAC AGTGCTTTGA TTTTTACCTG CCCAGAATTT AACTCCTCAT CCTATCCTAC ATGATTTCT TTTTCCTCTC CCCCCTTCCTC TTTTATTCCA TGTCACTGG AATGGCAGGT CTTGCACCAA GTAATGGCAG GTCTTGCACC AAGCAAGCCA GAAACCTGAG CTTTAGTCTT TATTCCTCCC CACTTCTCA	60 120 180 240 300 321
(2) INFORMATION FOR SEQ ID NO:649:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 559 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:	
GAATTCGGCC TTCATGGCCT AGAGGAAGTG AACGGATGGG GCCTCATCCT CCTGCCTCCC TAAAAGGGTGA GGGTGGAAAGG ATGGGGCTGT GCCCTCTTAG GGCAGGGAAA AACAGCTTGG AGGGGTTTCT GCCATCAGAG ATCCCATAGG AGGCAGGTCA GTCCTGCAGA ATTTCTCCCC	60 120 180

AGTCTGGCCT	CCAGCCTCCC	TEGECCCCTTT	CTAGAGGCCCT	CCATCCCACT	CCCCCCTTCC	240
						240
TCCTGCCACC	GGGCCTCTGC	ACAGTCACCT	CCTGCAGCCT	GGGGTGTGTC	GCCTCTCCAC	300
GTCTTGATAT	TTTTGCTGGA	ATGCAGACGA	TACTATATTT	ACCGTATAAT	ATATTATCAG	360
				ACATCTTATT		420
AGATATACAC	AGATTAGGAA	ACGCTTACAA	CATACAAATA	CACAAACTAG	AAATAAATCT	480
TTAGCATACT	GGTATATACA	ACAGTGTGAT	ACAATAAATA	ATTTCATTCA	TGCTCTATCT	540
ACACATCATA	TTGCTCGAG					559

- (2) INFORMATION FOR SEQ ID NO:650:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 477 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

GAATTCGGCC	TTCATGGCCT	AGGGAGACTG	AGGCAGGCAG	ATCACCTGGG	GTCGGGAGTT	60
CGAGACCAGC	CTGACCAGCA	GGGAGAAACC	CCGTCTCTAC	TAAGAATAGA	AAATTAGGTG	120
TGGCGGTGCA	TGCCTGTGGT	CCCAGCTACT	CGGGAGGCTG	AGGTAGGAGA	ATCGCTTGAA	180
CCCGGGAGGC	GGAGGTCATG	GTGGGCCGGG	ATTGCACCAT	TGCACTCCAG	CCTGGGCAAC	240
AAGAGTGAAA	CTCCATCTCA	AAAAAATAAA	AGCCTAGCCT	CCCAAAGTGC	CAGGATTACA	300
		TCTGTCCGCC				360
		ATTCTTATCA				420
AGAAAATAGA	ATTATCATGA	TTAATTAGCA	TATTCTGAAG	NACATGCTTC	CCTCGAG	477

- (2) INFORMATION FOR SEQ ID NO:651:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 414 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

GTGTGAACCT	ACGGGAAGGC	GGCCGCCTGC	ACCTCTGTGC	GGAGACCAAG	GATGATGCCC	60
TAGCATGGAA	GACAGCACTG	CTGGAGGCAA	ACTCCACCCC	GGTGCGCGTC	TACAGCCCGT	120
ACCAAGACTA	CTACGAGGTG	GTGCCCCCCA	ATGCACACGA	GGCCACGTAT	GTCCGCAGCT	180
ACTACGGACC	GCCCTACGCA	GGCCCTGGCG	TGACGCACGT	GATAGTGCGG	GAGGATCCCT	240
GCTACAGCGC	CGGCGCCCCT	CTGGCCATGG	GCATGCTTGC	GGGAGCCGCC	ACTGGGGCGG	300
		TCGCCCTGCT				360
CCCCTGCGCT	TGGATTGCTA	GACTCCTCTT	CCTCCTGGAC	CCCATCCTCT	CGAG	414

- (2) INFORMATION FOR SEQ ID NO:652:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 325 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA .
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

GAAGGAAAAC	ATGGGCACAG	GGGATTTTAT	CTGCATTTCC	ATGACTGGAG	GGGCGCCCTG	60
GGGGTTCAGA	TTGCAAGGTG	GCAAGGAGCA	GAAGCAGCCC	TTACAAGTTG	CAAAGATTCG	120
AAATCAGAGC	AAAGCCTCTG	GGTCTGGGCT	CTGTGAGGGA	GATGAAGTGG	TTTCCATCAA	180
TGGCAACCCT	TGTGCAGATC	TCACCTACCC	TGAAGTCATC	AAGCTCATGG	AAAGCATAAC	240
		TCAAAAGACC	ATCCAGTGGA	ATAAGTGAGG	CTTTGATATC	300
TGAAAATGAA	AACTCTAACC	TCGAG				325
/a >						
(2) INFORMA	ATION FOR SE	EQ ID NO:653	3:			

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 443 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

GAATTCGGCC TTCATGGCCT	AGGTATTTAG	GCTTTTGTCT	TAACAGCAAA	TCCTGGCTGT	60
CTGGGGCCTG ATGACTGTGT	TCCATGGGTA	TCCACTCCCT	GTCCACAGTG	TGGGAGCCCC	120
TCAGCTGCTT ATTGCAGGGA	CACAGAGCCC	GGCATGGTCC	AGAAGGCGGG	CTTATGGGGC	180
CTGCAGCACA CAGGGAAAGT	GAGCCCACAC	TGTGATAGGA	GGGCAGACAC	ACAGGATGTG	240
TTCTGTGTTA CAGGGTTGCC	GTGAAGAATT	TCATTCTTTT	GCAAGGACTG	GAGAGAAAAT	300
TTTATGTGGA AGGTAGCCCT	TGGAAATGAC	CTCAAAGAAT	AGGTAGGATC	TTAGCCTGCG	360
TTTGAAAGCC TGGAAAAAA	CAGGATGACA	GGATGAAGAG	GCCACAGCAC	AGCTGCAGAC	420
AATGGGAGTG CGGAGATCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:654:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 311 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

GGGAGCGCCG	GTGGTTCATC	CTGACCGATA	ACTGCCTCTA	TTACTTTGAA	TACACAACAG	60
ATAAGGAGCC	CAGGGGAATC	ATCCCGTTGG	AAAACCTCAG	CATCAGGGAG	GTGGAGGACC	120
CCCGGAAACC	CAACTGTTTT	GAGCTCTACA	ATCCCAGCCA	CAAAGGGCAG	GTCATCAAGG	180
CCTGTAAGAC	GGAGGCCGAC	GGCNGCGTGG	TAGAGGGGAA	CCATGTGGTG	TACCGGATCT	240
CAGCCCCGAG	CCCGGAGGAG	AAGGAGGAGT	GGATGAAATC	CATCAAAGCC	AGTATCAGCA	300
GATCCCTCGA	G					311

- (2) INFORMATION FOR SEQ ID NO:655:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 346 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

GGGGGATACG GATACCCAAA CTTCAATGTT CCTTGATAGT AGGAAGGAGG ACAGTTATAT AGACCATAAG GTGCCTTGCA CAGATTCACA AGTGCAGGTC AAGTTGGAGG ACCACAAAAT AGTAACTGCC TGCTTGCCTG TGGAACATGT TAATCAGCTG ACTACTGAGC CAGCTACAGG GCCCTTTTCT GAAACTCAGT CATCTTTAAG GGATTCTGAG GAGGAAGTAG ATGTGGTGGG AGATAGCAGT GCCTCAAAAG AGCAGTGTAA AGAAAACACC AATAACGAAC TGGACACAAG TCTTGAGGAGT ATGCCAGCCT CCGGAGAACC TGAACCATCT CTCGAG	60 120 180 240 300 346
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 116 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:	
GAATTCGGCC AAAGAGGCCT ACTAAACCGT CGATTGAATT CTCGAGGCAG GTCTAGAATT CAATCGACGG TTTAGGCTCC CTATAGTGAG TCGTATTAAT TTCAGAGGTG TATTTA	60 116
(2) INFORMATION FOR SEQ ID NO:657:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 482 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:	
GAATTCGGCC AAAGAGGCCT AGGGATGAGG GTGAAGAAGG GGAGAGGGTT GGTTAGAGAT ACAGTGTGGG TGGTGGGGGT GGTAGGAAAT GCAGGTTGAA GGGAATTCTC TGGGGCTTTG GGGAATTTAG TGCGTGGGTG AGCCAAGAAA ATACTAATTA ATAATAGTAA GTTGTTAGTG TTGGTTAAGT TGTTGCTNGG AAGTGAGAAG TTGCTTAGAA ACTTTCCAAA GTGCTTAGAA	60 120 180 240 300
CTTTAAGTGC AAACAGACAA ACTAACAAAC AAAAATTGTT TTGCTTTGCT	360 420 480 482
GAAGACTGAA GAAGTGTTAA CTGAAAACAG GTGACACAGA GTCACCAGTT TTCCGAGAAC CAAAGGGAGG GGTGTGTGAT GCCCATCTCAC AGGCAGGGGA AATGTCTTTA CCAGCTTCGG TGGCTGGCAC GTGTTACCAG GCCGAGTGGG ATGACTATGT GCCCAAACTG TACGAGCTCG	420 480
GAAGACTGAA GAAGTGTTAA CTGAAAACAG GTGACACAGA GTCACCAGTT TTCCGAGAAC CAAAGGGAGG GGTGTGTGAT GCCCATCTCAC AGGCAGGGGA AATGTCTTTA CCAGCTTCGG TGGCTGGCAC GTGTTACCAG GCCGAGTGGG ATGACTATGT GCCCAAACTG TACGAGCTCG AG	420 480
GAAGACTGAA GAAGTGTTAA CTGAAAACAG GTGACACAGA GTCACCAGTT TTCCGAGAAC CAAAGGGAGG GGTGTGTGAT GCCATCTCAC AGGCAGGGGA AATGTCTTTA CCAGCTTCGG TGGCTGGCAC GTGTTACCAG GCCGAGTGGG ATGACTATGT GCCCAAACTG TACGAGCTCG AG  (2) INFORMATION FOR SEQ ID NO:658:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 430 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	420 480
GAAGACTGAA GAAGTGTTAA CTGAAAACAG GTGACACAGA GTCACCAGTT TTCCGAGAAC CAAAGGGAGG GGTGTGTGAT GCCATCTCAC AGGCAGGGGA AATGTCTTTA CCAGCTTCGG TGGCTGGCAC GTGTTACCAG GCCGAGTGGG ATGACTATGT GCCCAAACTG TACGAGCTCG AG  (2) INFORMATION FOR SEQ ID NO:658:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 430 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	420 480

ATGGCTCCGA TTCGACTCTC AGACCAAGAG CATCTTCGAG CAAGAGAATA ACCATTCCAG TTTCTACACA GGAGTGTACA TTCTGATTGG AGCCGGGGCC CTCATGATGC TGGTTGGTTT CCTGGGCTGC TGTGGAGCTG TACAAGAGTC CCAGTGCATG CTGGGATTGT TCTTCGGGTT CCTCTTGGTG ATATTCGCCA TTGAGATAGC CGCCGCCGTC TGGGGCTATA CCCACAAGAG TCGAGTCGAG	240 300 360 420 430
(2) INFORMATION FOR SEQ ID NO:659:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 290 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:	
GAATTCGGCC TTCATGGCCT AAGAGTACAG AGATTCACT TCATCTTGTG CTAATGTTTA ATTNAAAGTA TATTGACACT AGTAAAGACA CTTTATTTTA ATTTGAGGTA TAAATGTCTA CCTAAAATAG ACTATTCCA TTGAGTCATA CATTTTAAAT GTGGTATATA TTCTTATATT TCAGAAAATG ATAACTATCA TAGAAATCTA ATACTCATTA ATTTGATTAA TAATTATTT TTTCCTCAAA TTTGGAAATA TCTTTTCCTA TGTAATGGTC ATGTCTCGAG  (2) INFORMATION FOR SEQ ID NO:660:	60 120 180 240 290
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 406 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:	
GAATTCGGCC TTCATGGCCT AGTCAGAAGT CTTTGTGTCC CTGTTTTGT GTCCATTTCA TGTACCTTGG CACTTTAAGG CTTGTCCTGC AAAATAAAAC ATTGCATCAT CACTTGTGAA GGCAGAGCTT GGGAGTTTGC ACTGCTAAGA TGAGGATAGG AAAGAAATTT ATGCCGCAGG GCCTTTGATG CTGCCCACTC ACCTGTCTGC ACAGCCAGGG CACGGCCAGC GGGAGTGGAG AAGACGAGCG AGACCAAAAC CTTGCCGTGG GGAGGAGGGT GGCATAGCCA TTGATAAATC GGGACTTGAA CTATCCCATC ACTCTAAAAA TATTTTTTAT CTGATTACAA AAGTAATAGA TGGCCAGGCA TGATGGCTCA TGCCTGTAAT CCCAACACTC CTCGAG	60 120 180 240 300 360 406
(2) INFORMATION FOR SEQ ID NO:661:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 461 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:	
GAATTCGGCC TTCATGGCCT AGTGGAACTG AAAACTCAGA GGAGGCATCA AACCCAGGCT TGGGGGACAA AACTAAGTCT TGCCAGAGTC CTGAAGGATG AACAACAGTT AACCAAGCAA	60 120

GGGATACTGG AGGGCATGGA GGCTCTCTGG CCTGGAGTGC AGAGCATGGA GTGCTCAAAG

AGCTAGTTAG	CTCTGCAAAG	CTGAGTGTCA	GGAATGTAAA	GGGAGAGAAT	AGGAGTGAGA	240
GAAGAGTCTG	GCAAGGCAGA	CAGGGAAGGC	CTATATGCCT	TGATGGAGAA	CCACTGAAGG	300
ATTTAAAGAA	GGAGAGGGTT	AATTTTGTCC	AATAGAAAGA	TCACATTGTG	TGTAGTGTGG	360
AGGATGGGTT	GCAGAGAGAG	AAGCTAGAGA	CCAAAAGATG	AGACGGGAAC	AGCTGCAAAT	420
TTCGAGAGCT	CGTAAGATTA	TGTATGGCTG	GACCACTCGA	G	•	461

- (2) INFORMATION FOR SEQ ID NO:662:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 502 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
    - (ii) MOLECULE TYPE: cDNA
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

GAATTCGGCC	TTCATGGCCT	AGCCTGAGCT	CAGGAGTTCA	AGACCAGCCT	GGGCAACACA	60
GTGAAACTCC	ATCTCTACTA	AAATACATAA	AAATTAGCTG	GGCCTGGAGG	CATGCACCTG	120
TGGTCCCAGT	GCTACTGGGG	AGGCTGAGGC	AGGAGAATTG	CTTGGGCCCG	GGAGGCAGAG	180
GTTGCAGTGA	GCCAAGATCG	CGCCACTGCA	CTCCAGCCTG	GGCAACAGAG	CGAGACTCCA	240
TCTCAAACAA	ACAAACAAAC	AAACAAACAA	ACAAAACAAC	AGTTATTTTT	TTCTCACCAT	300
TCTAAAGAAT	GTTACATTTG	ATTCTTTTTC	AAAATTTGGT	CAGTTTTGAT	AGTCTTATTT	360
CTCCATACTT	TCATTCCCCC	TTTTTATTTC	TGTAAATAAT	TGAACTTTAT	ATTCCTTATA	420
TGATAATTTT	AATATCCAAA	GTCATTGGTC	ATATTCTCCA	GTTCATGATT	TCTGCTGAGT	480
TTGTGGTGCT	GATTTTCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:663:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 485 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

GAATTCGGCC	TTCATGGCCT	ACAACCACCA	ACATTTGTGT	TTTTGCAGAT	GAACAGGTTG	60
ACAGAAGTCC	CACTGGCTCA	GGAGTGACAG	CCCGAATTGC	CTTACAGTAT	CACAAAGGGC	120
TTCTGGAACT	GAACCAGATG	AGAGCCTTCA	AAAGCAGTGC	AACTGGCTCA	GTATTCACAG	180
GGAAAGCTGT	GAGGGTAAGT	GGCACCCTTA	GCTTCTTATT	TATAAATGTG	TCACTCATGA	240
GACTGGAGAG	GCCTGAGTTG	GGTGTTTGAT	AAATTTCTTC	ACTCAGCTCT	CAGAAGAGAA	300
TTTTAAAGCA	GGCCTGTAAA	AACTTCTTTT	CAACTAGGAC	ATTGGTTATC	CAGTGTGGTC	360
TTGGGGCCCC	AGCGGGCCCC	TAAGGTCCTT	TCCATGGGTT	CAGAGGGTCA	AAACTGTGTT	420
CATAATAATG	ACATTATTTG	CTTTTCACTC	TCATTCTCTC	AAGAGTGTAC	AGTGGGTTAC	480
TCGAG						485

- (2) INFORMATION FOR SEQ ID NO:664:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 348 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:664:

GAATTCGGCC	TTCATGGCCT	AAAAATTATA	AAGTGTAAAA	TATCTTTGTA	TCTCTAGTTT	60
TTCTCCTTTC	CCCAGATAAG	AATAAAAGCA	GGCTGCAGGC	TCCTGGGGTG	ATÄACCCACT	120
TGGGTCGAGT	TCCATCGCTG	TTGGCGATAA	ATCTTGTTGG	TGTTCACTTT	TTGGGTTCTC	180
ACTACCTTTA	TGAGCTATAA	CACTCACCCT	GAAGGTCTGC	AGCTTCACTC	CTGAAGCCAG	240
CGAGAGTACG	AACCCACAGG	CAGGAAGAAA	CTCTGAACAC	ATCCGAACAT	TGGAAAGAAC	300
AAACTCCAAA	CAAGCCGCTT	TTAAGAACTG	TAACACTCAC	AACTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:665:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 571 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

GAATTCGGCC	TTCATGGCCT	AGTCGTTATC	AGAGGTGGAG	ACATTTAGAA	GTTGTTCTTA	60
ATCAGAGTGA	AGCTTGTGCT	TCGGAAAGTC	AACCTCACTC	CTCAGCACTC	ACAGCACCTA	120
GCTCTCCAGG	TTCCTCATGG	ATGAAGAAGG	ACCAGCCCAC	ATTTACCCTC	CGACAAGTTG	180
GCATAATATG	TGAGCGCCTC	TTAAAAGACT	ATGAAGATAA	AATTCGGGAG	GAGTATGAGC	240
AAATCCTCAA	TACCAAACTA	GCAGAACAAT	ATGAATCTTT	TGTGAAATTC	ACACATGATC	300
AGATTATGCG	ACGGTATGGG	ACAAGGCCAA	CAAGCTATGT	GTCATGAAGC	TTTGTCACAT	360
ATCTGGGTAC	CAGGTTTGAC	CTCAAGAGAT	GGCTGCTGTA	CACTTTTTGC	AACTGGTTTG	420
ATGTCACATT	TCAGCTCCAA	CTTTGCATCC	TGAGAACACT	TAAACGTTTC	TGCAGGTCCA	480
TTTTATACAA	CTTGAAAGAC	CGTAAAACTT	TCTGGTTGCC	ACAAGCATAT	CTTTCTTTTC	540
TGCTCATCCA	ATAAACAGCT	GAGCCCTCGA	G			571

- (2) INFORMATION FOR SEQ ID NO:666:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

GGGATCATTA	TTATTCAGCT	ACTGAGAACT	AGAATATTAA	GAGACTGCTG	GCAAGGCAAG	60
CAGTTAATTT	TCAGTTGAAA	TTGCATTAAA	TAAAAAGTAT	TTTCTTGCTT	TGTGGAAGCA	120
CGTGAATTTT	TGTAAAAAGC	TGCTTGTTTT	CCCCATTTAC	AGGTTCTGTA	CAGAGTAATG	180
AGATGTGTGA	CGGCTGCAAA	CCAGGTGTTT	TTTTCTGAGG	CTGTGTTGAC	AGCTGCTAAT	240
GAGTGTGTTG	GTGTTTTGCT	CGGCAGCTTG	AATCCTAGCA	TGACTATACA	TTGTGACATG	300
GTCATTACAT	ATGGATTAGA	CCAACTGGAG	AATTGCCAGA	CTTGTGGTAC	CAATTATATC	360
ATCTCAGTCT	TGAATTTACT	CACGCTGGTA	TGTGAATTAT	TCTTTTCCTT	TTTAATGTGT	420
TGGTTTATTC	AGGCCCATCT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:667:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 524 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GGGAACTGAC	AAGCAATTAA	CTGGAGAATA	AGTGAGGGGA	ATGGAGCAGT	AGTATTCTTT	60
AACTTAATTT	GCCATTTAAG	AGAGCACTTG	GAATCTGAAG	AAAGTCTATC	CCTACCAAGG	120
AAACGGAGTC	AAATTGCAAT	TAAGATTAAC	TTTGGTTATA	TGGAAGCAAG	AATCATGCTT	180
CTCATCATCA	ATTGCGTCTC	TTTGGTAGCC	AATAATTCCA	TCTGTAATCA	TGGCAGCAAC	240
TTAAGTATTG	CCAATGTTTT	CAAATGTGTT	ACAGCATTAA	GGCATCCACA	TCTAAAGAGG	300
CAGTTTTAAA	CAAGAGGAAA	ACGGAACTGA	AATGTGCCAA	GAAGTGAACA	CGGACATGGC	360
CTCTCCTGGA	ATACTGCCCA	CCATGCCAGC	AAGCTCTTCC	TCCAGTCAAG	AAGGCCTGTG	420
CCACGCTGCT	TGGTTCCCTG	CTGCCTGAAG	ATGCATTTGA	GCCCTATGAG	ATTAGTATGG	480
		GGAGAGAAAT				524

- (2) INFORMATION FOR SEQ ID NO:668:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 554 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC	AAAGAGGCCT	ACACAGAGGG	ATAATTGGCA	TTGGTATCAA	CTGACATATT	60
CACAACTTTG	AATAAAACTT	TCCACATTTG	GAAAATCACC	ATGCCTGGCC	CCTAGGCTAT	120
ACTTTGAAAA	CCACTGCTTT	AGTGTTTTAG	AAATTGTTAC	CCTCATACTA	ATATTTACTA	180
CACCCCCCAC	CTTGACAATA	CATACAAAAG	AGGAGTAACA	GTTTCCCATA	ACCTTTCTAA	240
ATTTGAGTCT	TATTAAACCA	GACTCATAGC	CCTTGTTGAC	TTTTCTTCCT	GATCTGTGCC	300
TTATCCCTAG	GGCGGTGATC	ATGCGGGTAT	CTGCTAATTG	GCAGATGTGA	GTGGTTATAC	360
CTATTTACAA	GCAACTCATT	GCAAAAATAA	TTTTAGCTAA	AGAAAACATC	CATGGCCAGA	420
GAATAAGTTT	TGGAATTTGA	TATGTTAAAT	GAGCTTTATG	TTTACCTTTA	AAAGGTTAAA	480
ATATTTACCA	TTCATGGATT	ACCTTTTTTC	AGAAAGTAAG	AATATATAAA	TTACATTTAA	540
TCTTGAAGCT	CGAG					554

- (2) INFORMATION FOR SEQ ID NO:669:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 329 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: CDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:

TTCATGGCCT	AATCGTATTC	CATCTACTGC	ATACTTTTCA	TAGATGTCCT	60
CACCTATGGT	TGTTTGTTAA	ACGTGTTATT	TCCTGATCCC	ACCCCAGGAT	120
TCTAAGAATT	TCTAAGTGTA	AGGCCTGGAA	ATATGCATTT	TACAACCCCC	180
TTATGTGCAC	TAAAATTTGA	GAACCACTAA	TCTGGTGTAT	ATACTGTTGT	240
		GGATGATTTT	TGACTTTATT	ATTATTATAA	300
AAACATCACA	CAGGCCAAG				329
	CACCTATGGT FCTAAGAATT FTATGTGCAC FTTCTTAATG	CACCTATGGT TGTTTGTTAA ICTAAGAATT TCTAAGTGTA ITATGTGCAC TAAAATTTGA	CACCTATGGT TGTTTGTTAA ACGTGTTATT ICTAAGAATT TCTAAGTGTA AGGCCTGGAA ITATGTGCAC TAAAATTTGA GAACCACTAA ITTCTTAATG ATAGATACTT GGATGATTTT	CACCTATGGT TGTTTGTTAA ACGTGTTATT TCCTGATCCC ICTAAGAATT TCTAAGTGTA AGGCCTGGAA ATATGCATTT ITATGTGCAC TAAAATTTGA GAACCACTAA TCTGGTGTAT ITTCTTAATG ATAGATACTT GGATGATTTT TGACTTTATT	PTCATGGCCT AATCGTATTC CATCTACTGC ATACTTTCA TAGATGTCCT CACCTATGGT TGTTTGTTAA ACGTGTTATT TCCTGATCCC ACCCCAGGAT FCTAAGAATT TCTAAGTGTA AGGCCTGGAA ATATGCATTT TACAACCCCC FTATGTGCAC TAAAATTTGA GAACCACTAA TCTGGTGTAT ATACTGTTGT FTTCTTAATG ATAGATACTT GGATGATTTT TGACTTTATT ATTATTATAA AAACATCACA CAGGCCAAG

(2) INFORMATION FOR SEQ ID NO:670:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 267 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:670:	
GGCGTATGAT ACCTAAAGTG GAGTGGTCGG CGTTCCTGGA GGCGGCCGAT AACTTGCGTC TGATCCAGGT GCCGAAAGGG CCGGTTGAGG GATATGAGGA GAATGAGGAG TTTCTGAGGA CCATGCACCA CCTGCTGCTG GAGGTGGAAG TGATAGAGGG CACCCTGCAG TGCCCGGAAT CTGGACGTAT GTTCCCCATC AGCCGCGGGA TCCCCAACAT GCTGCTGAGT GAAGAGGAAA CTGAGAGTTG ATTGCACCAG ACTCGAG	60 120 180 240 267
(2) INFORMATION FOR SEQ ID NO:671:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 429 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:671:	
GAATTCGGCC TTCATGGCCT ATTATCTCTC AAAAACAAAG CAATAAGTAC CAAGAAATAG CAACAAAAAT TAGCTTGTAA GGTTGGTTC TGAGGGTAGA AATGGCTCTT GATGCCATGT GGAGCAATGG GAAGGAGGCT TTCTAGTTAC ACAGACTCTT GGTCCTCCA CTTATTCATT TTATATTTAT TTATATTTTA CTTTAAAATT TTTGAGATAG GGTTTCACCC TGCCCCAG GCTGGTGGGC AGTGGCTCAC TGCAGCCTCG AACTACCAGG CTGAAGTGAT GCTCTTACCT CAGCCTTTCC AGTAGTTAGG ACACCAGGTG CACACCACCA TTCCTGGCTA ATTAAAAAAA TTTTTTTTGTG GGAACATGGC AAGACCTTGT CTCTATTAAC AACAACAGCA ACAGCAACAA CAACTCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:672:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 357 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:672:	
GTAAAATCGT TCTTGAGAGG AACGTCTCTG TGCGAAGAGA TAATGAGTTT AGCTCTGAGA AGTGAGCTTG TAGTGGACAA AACAAAGAGG AAAAAAAGAA GAGAACTGTC TGAGGAACAG AAACAAGAAA TTAAAGATGC TTTTGAACTA TTTGATACAG ACAAAGATGA AGCAATAGAT TATCATGAAT TAAAGGTGGC AATGAGAGACC TTGGGGTTTG ATGTAAAAAA AGCTGATGTA CTGAAGATTC TTAAAGATTA TGACAGAGAA GCCACAGGGA AAATCACCTT TGAAGATTTT AATGAAGTTG TGACAGACTG GATATTGGAA AGAGATCCCC ATGAAGAAAT ACTCGAG	60 120 180 240 300 357
(2) INFORMATION FOR SEQ ID NO:673:	
(i) SEQUENCE CHARACTERISTICS:	

- (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

GGTAGATAC	T GGTTTTTCGT	ATCCTGCTTC	TCTTAAGGGC	AGCTCTTTTT	AGCATACTCC	60
CATGCAGCA	A CAGAAATTTG	TATCTTTTTT	TTCTTTTTTG	AGATGGAGTC	TCGCTCTATC	120
ACTAGGCT	G AGTGCAGTGG	CACAATCTCG	GCTCACTGCA	ACCTCTGCCT	CCTGGTTCAA	180
GCGATTCTC	C TGCCCTAGCC	TCCTGAGTAC	CTGGGACTAC	AGGTGCGCGC	CACCACACCC	240
AGCTAATTI	T TATATTTTA	GTAGAGACGG	GGTTTTACCA	TGTGGCCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:674:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 470 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

GGATGGACAT	CAGCACTTTA	CGGCGCCAGC	TGAGACCCAC	AGGCCAGCTC	CGTGGAGGGC	60
TCAAGGGCTC	CAAGAGTGAG	GATTCGGAGC	TGCCCCCGCA	GACGGCCTCC	GAGGCTCCCA	120
${\tt GTGAGGGGTC}$	TAGGAGAAGC	TCATCCGACC	TCATCACCCT	CCCAGCCACC	ACTCCCCCAT	180
GTCCCACCAA	GAAGGAATGG	GAAGGGCCAG	CCACCTCGTA	CATGACATGC	AGCGCCTACC	240
AGAAGGTCCA	GGACTCGGAG	ATCAGCTTCC	CCGCGGGCGT	GGAGGTGCAG	GTGCTGGAGA	300
AGCAGGAGAG	CGGGTGGTGG	TATGTGAGGT	TTGGGGAGCT	GGAGGGCTGG	GCCCCTTCCC	360
ACTATTTGGT	GCTGGATGAG	AACGAGCAAC	CTGACCCCTC	TGGCAAAGAG	CTGGACACAG	420
TGCCCGCCAA	GGGCAGGCAG	AACGAAGGCA	AGTCAGACAT	CCAACTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:675:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 637 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

GAATTCGGCC	AAAGAGGCCT	AGTCGCTCTT	GCTGAAACCT	TCAATGCAGT	GAGCGCCCAT	60
CTCATTGGGA	CCTACAGGCT	GAAGTTCTTC	CTCTGATGGA	CATGACCCCC	GTGTTGTCTC	120
TAATAACCTC	ACTTTCACTC	TGTTCCAGCC	ACACGGGGTT	TCTGTCTTTC	TCGGGTCATG	180
TCGGGCTTAT	${\tt GTGCCTCGGG}$	CCCTTTGCTC	ATGCTGTTCT	CTGCCTGGGA	TGCGCTTTAC	240
TGGGTGCCAG	GATGGTCAGT	GATTCCATTT	CTCTCAGAGT	CTATTCACAG	GTCCCCTTCT	300
CGGTCACGCC	TTCTCTGGCT	CCACTGTCTA	AAATTTCAAC	AGCTGCCTCT	GCCCCCGAA	360
CTTCATATCC	CCCTTATCTG	CCTTTTTTCC	TTCAGCTCTT	ACTTCCATCA	AATACAGTAT	420
GTATTTTTAA	AAGTCTTATC	TTGTTCACGG	TCATTTTCTT	CCACAGGTAA	TTTTGGTAAA	480
CTTTGTAAGA	TTGATGATGT	TTAATACTGT	TTTGTTTAAT	ACAGTACCCC	CAGTTTAGCA	540
CACAGCTTTT	GAATGAATGA	CCAGTTTTTA	TTCCCCTCTG	AAGCGCTAAG	AGCTGCCGCT	600
GAGGTGGCAT	CTGTAGCNGC	TCCCGCTCCA	ACTCGAG			637

- (2) INFORMATION FOR SEQ ID NO:676:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 513 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

GAACACGTCA	TGAGGAAGGA	GCAGCGCAAG	GAGGAGAAGG	AGAAGCGGCG	CCTCGACCAG	60
CTGGAACGTA	AGAAGGAGAC	GCAGCGCCTA	CTGGAGGAGG	AGGACTCCAA	GCTCAAGGGC	120
GGCAAGGCGC	CGCGGGTGGC	CACGTCCAGC	AAGGTCACCC	GGGCCCAGAT	CGAGGACACG	180
CTGCGCCGAG	ACCATCAGCT	CAGGGAGGCC	CCGGACACAG	CCGAGAAAGC	CAAGAGCCAT	240
CTGGAGGTGC	CGCTGGAGGA	GAACGTGAAC	CGCCGCGTGC	TGGAGGAGGG	CAGCGTGGAG	300
GCGCGCACCA	TCGAGGACGC	CATTGCAGTG	CTCAGCGTGG	CGGAGGAGGC	GGCCGACCGG	360
CACCCAGAAA	GACGCATGCG	GGCAGCCTTC	ACAGCCTTTG	AGGAAGCCCA	GCTGCCGCGG	420
				AACAGCTGCT	CAAGAAGGAG	480
TGGCTCCGCT	CTCCTGACAA	CCCCAAACTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:677:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 376 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

GTCCATCCTG	AGCTCCATGG	AGAAGCCACC	CAGCCTCGGT	GACCAGGAGA	CTCGGCGCAA	60
GGCCCGAGAA	CAGGCCGCCC	GCCTGAAGAA	ACTACAAGAG	CAAGAGAAAC	AACAGAAAGT	120
GGAGTTTCGT	AAAAGGATGG	AGAAGGAGGT	GTCAGATTTC	ATTCAAGACA	GTGGGCAGAT	180
CAAGAAAAAG	TTTCAGCCAA	TGAACAAGAT	CGAGAGGAGC	ATACTACATG	ATGTGGTGGA	240
AGTGGCTGGC	CTGACATCCT	TCTCCTTTGG	GGAAGATGAT	GACTGTCGCT	ATGTCATGAT	300
CTTCAAAAAG	GAGTTTGCAC	CCTCAGATGA	AGAGCTAGAC	TCTTACCGTC	GTGGAGAGGA	360
ATGGGCCCCC	CTCGAG					376

- (2) INFORMATION FOR SEQ ID NO:678:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

GAATTCGGCC TTCATGCC	TA GCAGGAGGTT	TTATTGTAAA	GAGGCCGATT	GTACAGAGCA	60
AAGATTGTTC TGACACGG	GG GGCTGGGTGG	TGGGACCCAG	AGGCCAGAGC	TGGGTGAAGG	120
ATGAGGGTG GCATCGCC	CC ATCCAGGCAG	TGGGCAGGGC	AGGGAGGACT	AAACGGCTGC	180
CTCCCAGTTC CCTTCCCT					240
GATCCAGGAG AATATAGC					300

AGGTGCCCCA GTCTGGCTTT TGCAGTCGGC CAGCTCCCAG CCTCCTCGAG

(A) LENGTH: 357 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(2) INFORMATION FOR SEQ ID NO:679:

(i) SEQUENCE CHARACTERISTICS:

	(D) TOPOLOGY:	linear			
(ii) M	OLECULE TYPE: c	DNA	•		
(xi) S	EQUENCE DESCRIP	TION: SEQ ID NO:	679:		
ACATTTCCTT AG TGGGCTGCAC CC CTGTGTTGCT GT CTAGTACATA CT	ATCGTGGT CAGCTC CGGCCGTAG GCTAGT CTCTTA^A TTAACC CGAAGCGAT GGTCAG	CACC GGGGAAAAAC CGAG GAATGTGGCG GTAA CTCGCATCCC GTGC TGAGGCTCCA AGTG TGTAGAGTGA TTGT GCAACGTTCT	TCCAGGCTCT ATTGCAGTGC CATAGCTCCT AGTTGCTGTG	TTGAGAGCCA CGTTTCTTGA GGACCTGTGT CCCACATTGT	60 120 180 240 300 357
(2) INFORMATI	ON FOR SEQ ID N	0:680:			
	QUENCE CHARACTE (A) LENGTH: 250 (B) TYPE: nucle (C) STRANDEDNES (D) TOPOLOGY: 1	base pairs , ic acid S: double inear			
(11) M	OLECULE TYPE: ci	ONA			
(xi) S	EQUENCE DESCRIP	rion: seq id no:	680:		
ACCCAGTGTC GA GTGGAGTGAG GG	GGTTAAAA AAAAAA GATCTGGG ATCCAG	TGCA GGGATCTGGC CAAA AAACCAAAAA TGAT GGGGGCCCCA ACAT CCAGAATCCA	CCAATGCAGG GGATCCAGGC	AATCCAGTGG ATTGTGGTTG	60 120 180 240 250
(2) INFORMATI	ON FOR SEQ ID N	O:681:			
(i) SE	QUENCE CHARACTEI (A) LENGTH: 406 (B) TYPE: nucle (C) STRANDEDNES (D) TOPOLOGY: 1	base pairs ic acid S; double			
(ii) M	OLECULE TYPE: cl	ONA			
(xi) S	EQUENCE DESCRIP	rion: SEQ ID NO:	681:		
SAGAAAGTGC AG AATCCAAGAT TT SAGGGGTACT TT CTGCAGCCAA GA AAAGTTTGTA GC	GAGCAACT GGGAAA AATCAACT ACTGTC CATTGAAT TCCGAA AGAACGCA TTGAGT AGATCTAC GGAAAG	GATC AAAATCGGAG TGAT GAATATTCAA TGAG CTACATTGCG ATGG GATGTTAAAC TCTA CGAACTCGAT AGTT TGCTGGAAAA CTGA TGGATGGAAA	AGTCATCTGG AAAATTAAAC GTGTCCCCTA AAAAAAGAAA GGCCTCACGT	GTGAGGCCCT TCCCGAAGAA TTGGAAGAAG ATATAAGACA	60 120 180 240 300 360 406
		317			

- (2) INFORMATION FOR SEQ ID NO:682:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 316 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

GAATTCGGCC						60
GACTCCCTCT						120
GGAGGGGCCC	TGGCCCCCAC	TGACCCAGCA	TTGCTATCCA	CAGGAGGAGC	AGCCCCCACA	180
ACATCGATCC	AAGAGGGGGG	GCTCAGTGGG	CGGCGTGTGC	TACCTGTCGA	TGGGCATGGT	240
CGTGCTGCTC	ATGGGCCTCG	TGTTCGCCTC	TGTCTACATC	TACAGATACT	TCTTCCTTGC	300
GCAGCTGTCC	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:683:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 394 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

			TAGACCTGCC			60
GATTACAGGT	GTGAGCTAGC	ACTCCCAGCC	GACAGGTGCT	TCTTAAATGT	TTTCTTTGAG	120
			TTAGAAGGAA			180
TTTTTTCTCC	AATCAGTCTC	TGATTAAATA	GTTATTAGGA	AAAACTCCTT	GCTTATGTCT	240
			TGTGTAAATA			300
GACAAACACG	TGTATGCACA	TTTCACAATG	GAGGAAGAAG	GGATATGGTG	TGCACTGAGG	360
TAAAGTGAGC	AGGGATACAG	AAGAGAAACT	CGAG			394

- (2) INFORMATION FOR SEQ ID NO:684:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 509 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

GTCCTAACCT	TGGGTCCAAG	TTTCGTTATA	GTGGCAGGAC	ACAAGCGCAA	ACGAGAAGAG	60
CCAGTGCGTT	GATAGATCGC	CCAGCACCTT	ACTTTGAACG	CTCATCCAGC	AAACGTTATA	120
CCATGTCTCG	CAGCTTGGAT	GGAGCATCAG	TGAATGAAAA	CCATGAAATA	TACATGAAGG	180
ATTCTATGTC	TGCTGCAGAG	GTTGGTACTG	GCCAGTACGC	CACAACAAAA	GGCATCTCTC	240
AGACCAACTT	GATCACCACT	GTGACTCCGG	AGAAGAAGGC	TGAGGAGGAG	CGGGACGAGG	300
AAGAGGACAA	ACGGAGGAAG	GGGGAAGAAG	TCACGCCCAT	CTCGGCCATC	CGGCACGAGG	360
			CAGCCGACGG			420
CGGACCAGGA	GGAAGATGCA	GAGCTCAAGG	CACAGGAGCT	AGAAAAAACT	CAAGATGACC	480

TGATGAAACA TCAAACCAAC ATTCTCGAG

(2) INFORMATION FOR SEQ ID NO:685:

509

(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 441 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:685:	
GCCTCTTCT TTATATGATT TTGGGTGCTG TTATTTTCAT CCTTTTCTGC GAAGGAATGG	TTCATGGCCT ACCAAAGTGC TAGGATTACA GGCGTGAGCC ACTGCGCCTG TCTTTCTTGA ATTCTCTCT TTTTATGTTC CTGGGAAAAT CCTACTCATT TGGCTGATGT AAAGCCACCA TTGTCTTCCT AAGCAGAGAG GGTCTTGCTT CACAACTTTG TGCAATTTTT CTGTTACATC ATTTATCTTT TGGGGATTGT ACTTATCTCT CTTCCAGGAC CATGTTAGGG AGAGGTGTTT TTAATTTTTA AGCACTTAGC ACAGTGCCTA ATCATAGTAA ATATCACGTA AAAGTTGAAT ATGTTTGATA TAGAGTTAGG ACACCTGTGT CCCAGCTCTGG CTTTGCTTTT CCCACCTCGA	60 120 180 240 300 360 420 441
(2) INFORMA	ATION FOR SEQ ID NO:686:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 273 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:686:	
GTGCTGAAAT AGGAGAGAAA GGATAGTGCC	TTCATGGCCT AGTTGGTTTA TGTTATGTAA AGTTATGTAG TTATGTAAAG GTCACTCTTG TGATTATGTT TTATTATATA AGGCTCTATC TTAGCAAACC TTCTCCTGAT GGCCTTGAAG AAGCAAACAG CCACCTGGTT AAGCCCCTGT AAGTGGCAGG AAAGTGGGAG CCACCTCTAG GACCTCAGGA TTAAAGTCAG GACCTCACTC ATGCAGACTC GAG	60 120 180 240 273
(2) INFORMA	ATION FOR SEQ ID NO:687:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 124 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:687:	
	AAAGAGGCCT AGGGCTCTGG ATTTTGAGTT TCGGGCTCTA GATGGAATT3 ACTTGCTCAG AGGGCCCTGG AGGCTCATCT GACTTCACCC GGATTTTCCT	60 120 124
(2) INFORMA	ATION FOR SEQ ID NO:688:	

(A) LENGTH: 426 base pairs

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:688:	
GAATTCGGCC	AAAGAGGCCT ATGCCATCTT AGTCCCTCTT CCCAACCCCA TTTTTTAGTT	60
ACTTTCCTTT	CATTAAAATA TCCTTATGCA CTTACAAATA AAACTAAGTC CCAAGAGGGC	120
AACAAAATAT	AAGATTCTTA ATGATACAAA AACAAATCTT TCTGATACTA GATCTTTTAT	180
ACTAGAAAAA	TAAATTCTTG TGCTTGAACA TCATTTTTAA GCACTTAGTG AATTGAGAAT	240
ACCTATTCAA	ACTTGAAATA TTCCCGGGAA AGAAACATTA TGAACCAAAT GAAGGAACAT	300
CTCCAGTCTT	AGGGACATAT TTTTGTACTT GTTTTGCTCC AATTTCTGCT ACATAGACTG TCTGTCGACT CTAGGAGATG CCTAAACCGT CGATTGAATT CTAGACCTGC	360
CTCGAG	TOTATOGACT CTAGGACCTGC	420
	•	426
(2) INFORMA	NTION FOR SEQ ID NO:689:	
(i) :	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:689:	
GAATTCGGCC /	AAAGAGGCCT ATAGTTTTTT CATGTTACAT CTTTTAGATT ATTTTCTTTT	60
TAATCTATCT	GTGACTATAT TTAAAGTCAA TTCTTGTTTT TTCCTTTTCC TTTTTGTGGG	120
TAACGGGGTC '	TCGCTGTGTT GCCCAGGCAG ATCTCAAACT CCTGGGCTCA AGCTGTCCTC	180
CCACCTCTGC	CACCCTAGGC TCGAG	205
(2) INFORMA	TION FOR SEQ ID NO:690:	
(i) S	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:690:	
GAATTCGGCC A	AAAGAGGCCT ACGTTGATTG AGCACTGAGC CCTTACTACG TGCTAGGCAT	60
GGTACATGCA	TGGCCTTATT TAATCCTATC AACCCTCGAG	100
(2) INFORMA	TION FOR SEQ ID NO:691:	
(i) S	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 302 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	320	
	•	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

GAATTCGGCC AAAGAGGCCT ACA	TCATACA AGTCGTCGTA	AAGCAAATCT	GAGCTGTTGT	60
CATTGGAAGG CACTTTAGTT TTG	ATGCAGT ATTCCGCCAG	GGTTGTGGGG	ACCTTCACTC	120
CATCCTTTTC TGCTTCGGCC TTA	GTGGCTG AAACTTGTTT	CCTAATAATT	TCAGCATATT	180
CTTTGTCTTT TCCTTTACTG TCT	CTCCATT TCCTGAACAT	AACTGAAGCA	TCGACATTGG	240
CTGGGGAGAA GGTGTTGGGC TCA	TTAAGCA GTGAGATTAC	ACTTAATAGG	ATAGTCCTCG	300
AG				302

- (2) INFORMATION FOR SEQ ID NO:692:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 662 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

GAATTCGGCC	AAAGAGGCCT	ACCAAATACC	AGGCTACCAT	GGTCTACAAG	ACTCTCTTCG	60
CTCTTTGCAT	CTTAACTGCA	GGATGGAGGG	TACAGAGTCT	GCCTACATCA	GCTCCTTTGT	120
CTGTTTCTCT	TCCGACAAAC	ATTGTACCAC	CGACCACCAT	CTGGACTAGC	TCTCCACAAA	180
ACACTGATGC	AGACACTGCC	TCCCCATCCA	ACGGCACTCA	CAACAACTCG	GTGCTCCCAG	240
TTACAGCATC	AGCCCCAACA	TCTCTGCTTC	CTAAGAACAT	TTCCATAGAG	TCCAGAGAAG	300
AGGAGATCAC	CAGCCCAGGT	TCGAATTGGG	AAGGCACAAA	CACAGACCCC	TCACCTTCTG	360
GGTTCTCGTC	AACAAGCGGT	GGAGTCCACT	TAACAACCAC	GTTGGAGGAA	CACAGCTCGG	420
			TGTCGCAGTC			480
			CCTCATCCCT			540
TCTTTTCTGC	CTCCGTTACT	ACCAACCATA	GCTCCACTGT	GACCAGCACC	CAACCCACTG	600
GAGCTCCAAC	TGCACCAGAG	TCCCCGACAG	AGGAGTCCAG	CTCTGACCAC	ACGACCCTCG	660
AG						662

- (2) INFORMATION FOR SEQ ID NO:693:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 321 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

GAATTCGGCC AAAGAGGCC	AAGCCCCCAA	AACACGCTCT	TTTGTGCCTC	CCCTCAAATC	60
CTTCACAGTG TTCTTCCATA	TCCACTCCTT	CCAGGAAGCA	TGTTCTCACT	ACCCCAGTTC	120
ATGTGGGTTT CTTCCCTCTC	AGAATTTCTA	TCATGCCCCT	ATAAGTTTAG	CAAATTGTCC	180
TTCTCTAATT GTTTCACATO	TGTCCATCCG	ATATCCCAGG	AGGACTGTCA	GCTCTATGAA	240
GGCAGGGGTT GTCTTTCCTT	TACCATGCCT	ACCATGCCTT	ATAGTGTTAA	TAAATTAACC	300
TACCCAGAAA TGTTTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:694:
  - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 357 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

GCGATTGAAT	TCTAGACCTG	CCTCAATCCC	CTCCCTACTT	GCTTTTTCTT	AGCATATAAA	60
AGTCCACAAG						120
TTAGTTGCTA						180
TACAATACTT						240
		CTGCCTTCTC				300
TTATACAATA	CTTGCTGTCC	TGCCTTCTTC	TCTCAGCTGA	GCTCTCTGGA	ACTCGAG	357

- (2) INFORMATION FOR SEQ ID NO:695:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 225 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

GAATTCGGCC AAAG	SAGGCCT ATGGGTTTT	DTTTTAAAAA T	TTTTTATTTT	TTCCTTTGAT	60
GTGCAGAGGC TGTT	TTACTTT GATGCAGTC	CACTTGTTTA	TATTTTATTT	TGTTGCTGGC	120
CTAGGCCTCT TTGG	GCCGAAT TCGGCCAAA	AGGCCTAGTC	GGGTGTGGCA	GTGCCATTCT	180
GCAGTCCCAG CCAC	CCGGGAA GACCGAAGC	GGAGGATCAC	TCGAG		225

- (2) INFORMATION FOR SEQ ID NO:696:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3:14 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

GAATTCGGCC	AAAGAGGCCT	ATCCGCTTCT	GTTGCAGCTG	GCGGTGCTCG	GCGCGGCGCT	60
$\tt GGCGGCCGCA$	GCCCTCGTAC	TGATTTCCAT	CGTTGCATTT	ACAACTGCTA	CAAAAATGCC	120
AGCACTCCAT	CGACATGAAG	AAGAGAAATT	CTTCTTAAAT	GCCAAAGGCC	AGAAAGAAAC	180
TTTACCCAGC	ATGGGACTCA	CCTACCAAAC	AACTTTCTGT	CGTTGTGCCT	TCAAACAATG	240
AAGAAAAACG	GTTGCCTGTG	ATGATGGATG	AAGCTCTGAG	CTATGTAGAG	AAGAGACAGA	300
AACGAGACCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:697:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 353 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

${\tt GAATTCGGCC}$	TTCATGGCCT	ACAGAGTGTG	GACGGCCCAC	TGGGTTGGTG	GTGGTGGGTG	60
CCCGTCACAG	GGCTGGAGGT	GTGGCCGGCC	CACTGGGTTG	TGCTTTCTGC	CGTACGTCCC	120
TTCCCATGAG	GATGAGATGA	CCCATCTGTT	GCATCCCGGC	TGCTGATAAA	ACAAGACCCT	180
CGGAGCCAAG	AAACAACACT	GAGTTCCAGA	TTTCGGAAGG	TTCACGAGTG	TTGCCGACAC	240
GCCCTCCCAA	CTGCAGACAT	CCTCCCTGGA	GGACCTGCTG	TGCTCACATG	CCCCCTGTC	300
CAGCGAGGAC	GACACCTCCC	CGGGCTGTGC	AGCCCCCTCC	CAGGCCCCTC	GAG	353
	CCCGTCACAG TTCCCATGAG CGGAGCCAAG GCCCTCCCAA	CCCGTCACAG GGCTGGAGGT TTCCCATGAG GATGAGATGA CGGAGCCAAG AAACAACACT GCCCTCCCAA CTGCAGACAT	CCCGTCACAG GGCTGGAGGT GTGGCCGGCC TTCCCATGAG GATGAGATGA CCCATCTGTT CGGAGCCAAG AAACAACACT GAGTTCCAGA GCCCTCCCAA CTGCAGACAT CCTCCCTGGA	CCCGTCACAG GGCTGGAGGT GTGGCCGGCC CACTGGGTTG TTCCCATGAG GATGAGATGA CCCATCTGTT GCATCCCGGC CGGAGCCAAG AAACAACACT GAGTTCCAGA TTTCGGAAGG GCCCTCCCAA CTGCAGACAT CCTCCCTGGA GGACCTGCTG	CCCGTCACAG GGCTGGAGGT GTGGCCGGCC CACTGGGTTG TGCTTTCTGC TTCCCATGAG GATGAGATGA CCCATCTGTT GCATCCCGGC TGCTGATAAA CGGAGCCAAG AAACAACACT GAGTTCCAGA TTTCGGAAGG TTCACGAGTG GCCCTCCCAA CTGCAGACAT CCTCCCTGGA GGACCTGCTG TGCTCACATG	GAATTCGGCC TTCATGGCCT ACAGAGTGTG GACGGCCCAC TGGGTTGGTG GTGGTGGGTG CCCGTCACAG GGCTGGAGGT GTGGCCGGCC CACTGGGTTG TGCTTTCTGC CGTACGTCCC TTCCCATGAG GATGAGATGA CCCATCTGTT GCATCCCGGC TGCTGATAAA ACAAGACCCT CGGAGCCAAG AAACAACACT GAGTTCCAGA TTTCGGAAGG TTCACGAGTG TTGCCGACAC GCCCTCCCAA CTGCAGACAT CCTCCTGGA GGACCTGCTG TGCTCACATG CCCCCTGTC CAGGCGAGGAC GACACCTCC CGGGCTGTGC AGCCCCCTC CAGGCCCCTC GAG

- (2) INFORMATION FOR SEQ ID NO:698:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 449 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

GAATTCGGCC	TTCATGGCCT	AGATTGACAG	AGGTCAGTTG	TCACTTCTTG	CCTCTCTCCC	60
CTTCCAGCAA	CATGTATAAT	CCTGTGAGTG	TTTCTTCAGC	ACCCTTCTCT	GTTGTTTACA	120
CTACTGCAAG	AGCCTCCCTA	AGTGGTCTGC	CTGTTTCCAC	CCTGTTGTCT	TGGAATTTAG	180
TTTTCTCGCA	AAAGCCAGAG	AATGTTTTCA	GAAGGTAGCT	CTTGAGCAAC	TTCCCACTTT	240
CTTGGAGGGG	AGATCCAGCT	TCCCCAACAA	GACCAGCAGG	CCCCTGTGCG	GCCTGGCTCC	300
TGTTCACCCT	ACCAGTCTTG	GCTCAGGCTC	ACGGCTGGAA	TATGCCGAGC	TCTTTCTTGT	360
CCTGGGGCCT	TTGCACTTGG	CTTCCCTCTG	TCCAAAATCA	TCTTCCTGTA	GCTTTGTGCT	420
TGCCTAGCTC	ATCATCATAG	CAGCTCGAG				449

- (2) INFORMATION FOR SEQ ID NO:699:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 340 base pairs
    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (C) STRANDEDNESS: doub (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

GAATTCGGCC	TTCATGGCCT	ACAGAGAACT	GAGGAAAACC	AACTACGTGG	AGAATCTCAA	60
AGAAAAAAGC	GAGGGAGAAG	CTTCACTGTA	TGAAGATAGA	ATAATAACAA	GAGAGAAGGA	120
CATGAGGAGA	GTGAGAGATG	AGCCCGAGAA	GGTGGTGAAG	CAGTGGGACC	ATAGTGAGGA	180
TGAGAAAGAG	ACAGATGAGG	ACGATGAGGC	TTTTGGGGAA	GCTCTGCAGA	GCCCAGCAAG	240
CGGAAAGCAG	AGTGTGGAAG	CAGGAAAAGC	CAGAAGCGAT	TTGGGAGCAG	TTGCCAAGGG	300
CCTGTCAGGA	GAATTAGGCA	CAAGATCAAG	AGGGCTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:700:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 380 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

GAATTCGGCC	TTCATGGCCT	AAGCCAAGCA	AGGCTGTACC	TTTAATTACT	GCTGCCCTCA	60
TTTGCATCTG	GCTGCCCTCA	TTATAGTGCT	ATTAGCAGAG	TGCAGGGGTC	CTCCTGCTGG	120
CCCATCGGGA	GTGGTGCGTG	CACAGTTGTG	GGGCCTTGCT	TTGGTGGTCT	TTGCTGCCTT	180
					GGCCAGAAGC	240
	GCTCATCGTG					300
AACAATTTGT	GTTTTCTTTC	TCCTTATTAA	AAACCCAAAA	TTATATTCAT	TATAGAAAAT	360
TAAAGAAGAT	AGCTCTCGAG					380

- (2) INFORMATION FOR SEQ ID NO:701:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 319 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCAGCCTCCC	AAAGTGCTGG	60
C GTGAGCCACC	GCGCCCAGCC	GAAAATCTAA	AGATATTGAA	AAGATACAAA	120
ATGAACATTT	TTTTCGTATC	ACTGAGTATT	TTATAACTGC	ATCATTGATT	180
TCATGACTTT	GAAAACTAAT	ATTCTACAAA	GTAGCTTTTG	ATTTAACATG	240
TATGTGCTTA	TCTTGGTTCT	CTATGAAACC	CCATTGAAAT	AAGAAAATGT	300
CAACTCGAG					319
֡	C GTGAGCCACC C ATGAACATTT C TCATGACTTT	C GTGAGCCACC GCGCCCAGCC T ATGAACATTT TTTTCGTATC T TCATGACTTT GAAAACTAAT A TATGTGCTTA TCTTGGTTCT	C GTGAGCCACC GCGCCCAGCC GAAAATCTAA T ATGAACATTT TTTTCGTATC ACTGAGTATT T TCATGACTTT GAAAACTAAT ATTCTACAAA A TATGTGCTTA TCTTGGTTCT CTATGAAACC	C GTGAGCCACC GCGCCCAGCC GAAAATCTAA AGATATTGAA T ATGAACATTT TTTTCGTATC ACTGAGTATT TTATAACTGC T TCATGACTTT GAAAACTAAT ATTCTACAAA GTAGCTTTTG A TATGTGCTTA TCTTGGTTCT CTATGAAACC CCATTGAAAT	TTCATGGCCT AATTGAATTC TAGACCTGCC TCAGCCTCCC AAAGTGCTGG GTGAGCCACC GCGCCCAGCC GAAAATCTAA AGATATTGAA AAGATACAAA TATGAACATTT TTTTCGTATC ACTGAGTATT TTATAACTGC ATCATTGATT TCATGACTTT GAAAACTAAT ATTCTACAAA GTAGCTTTTG ATTTAACATG A TATGTGCTTA TCTTGGTTCT CTATGAAACC CCATTGAAAT AAGAAAATGT C CAACTCGAG

- (2) INFORMATION FOR SEQ ID NO:702:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 549 base pairs(B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

GAATTCGGCC	AAAGAGGCCT	AATAGTCAAG	ACCTTTGCAG	TTTTGATCAC	AGAAATATGA	60
AAGATTACAC	AGCTACAGCT	ATATGAATGA	TAAAAGTGAC	AGCTATGGAT	TTTTAAAGTT	120
		TATGTAATGT				180
		ACATGTATTT				240
		ACTTCACATG				300
		GGTTAGAAGA				360
		CCTACTCTCC				420
		AAAATCTTTG				480
ATACTATTCT	ACAAGACTAA	CCTAAAACTG	ATTATAAGAA	CTAGGTGAGG	AGGGCCGGCA	540
AAACTCGAG						549

- (2) INFORMATION FOR SEQ ID NO:703:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 758 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

GAATTCGGCC	AAAGAGGCCT	ATCGAGCCAC	TGCACCTGGC	CGATGTGTTC	TGTTTGAAAT	60
CTTACTCAAA	AGTATTTGAA	GAGTTGTGTA	TAGTTGTATG	GATATGTCTG	TAGTAAACAG	120
AAACAAATTG	CTTCAGTTTC	TCTTTACTTA	TTTTCTAGGT	TACAGTACCT	TTACCAGCAT	180
CCCAGCTTTC	CTTGCCTAAT	TTTGGATCTA	CAGGGCAACC	TCTAATTGCT	TTGCCTCAGA	240
CTCTTCAGCC	CCCATTACAG	CATACCACTC	CCCAAGCACA	GGCTCAGAGT	CTGAGTCGTC	300
CTGCACAAGT	AAGCCAGCCT	TTCAGAGGAT	TAATTCCTGC	TGGAACACAG	CATAGCATGA	360
TTGCAACCAC	CGGAAAAGTA	AGTAAAGAGA	CATTTGCACA	GGTTATTTGA	GAATTTAAGG	420
TAGTGTGTTC	AGATATATGC	ATCTGTGTTA	TCTAAAAAAC	TAAAATGCGT	CAGTTTTTAC	480
CACCCTGCAA	AAATCTCAAA	CCCCAGTATA	TTTACATTTT	ATCTATTTAC	TTTTAATGTG	540
TTTGGCCCCA	TCTAGTTTTT	ACCTAATAAC	AAAGAATTCA	CAAATTTATT	GGAAGAATTG	600
GATTTATAGT	GTCTCTTCGG	CTTATTTAAT	TATAAGTCTG	TTTGGTCAGG	TAATTCCATA	660
ATACTTGAAG	CCTAACTATA	GGAGTTTTGT	ACTAAGGTTC	TTTGCCCTTT	CCTAGATTAC	720
GTCTTCACGT	ATAGGACATG	TAAACACAGC	AACTCGAG	•	1	758

- (2) INFORMATION FOR SEQ ID NO:704:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 663 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

GAATTCGGCC	AAAGAGGCCT	AAGATGGCCT	TCCCATGTTA	TGGCTACATG	GCTGTGATAA	60
CAAGTAGAGT	TATGTGTCTG	CGCTCTAAAC	TCACTGAGTC	TTGCAGGATG	TAAACATCCT	120
AGCTCAGCCT	ATCCTTGACC	AAAGCACANT	CATGCTCCTT	ACAAACTCCA	ACCAGCCTGC	180
ACACTGGGAG	GAGCGCGTGC	TGGGCTAGAG	CCACAGAATT	TTGTACCGTT	GGCAGCAGGG	240
AGGAGCCTGG	CCCCTCCTTT	CCTAGGTAGA	ATCTGGAATT	CAATCTGTGA	GGTGGGAAGC	300
ATATACTAGG	AGGACTTTCA	CTCTGCTGAG	TCCCTGTTCC	CGCTCCCTTT	TTTTTCCTTT	360
TTGCCCAATA	AACCCCTTTA	TTCTCACACT	TCAAATTGTC	TGTGAGACTA	ATCTTTTGTG	420
GCCATGTGAC	ATGGACCCTG	TCTGTAGCTG	AAACTAAGAA	AAAGCCCCTC	CCGCACAGTC	480
TGATGTTTCC	TCAGTCAGAC	ACTGCAAGCT	GTGATGTTGG	GGTGAGTACA	GGATATTTGG	540
CAATATTTGC	AGACAGTTTT	GGCTGTCAGA	GAGGAAGATG	CTGTATGCAG	ACACACTTGA	600
CAGCAATAAC	TTAAGCCCAC	CCTGAGACTG	ACTCTGCATG	GTGATGCACC	TGAAGGCCTC	660
GAG						663

- (2) INFORMATION FOR SEQ ID NO:705:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 334 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

GTGGTGGAAT	TACAGGCGTA	AGCCACTGCG	CCTGGCCCCA	AGTGTCCATT	TTTTAATTTA	120
GTAATTCTAA	CCTAGGTATT	TTTCCTGCAG	TACAAAATGA	GGATAAAGCT	TTACATGAAA	180
ACATGTTGTT	CCTATTATGT	TTATTGCAGC	AAAAACACAA	CCTAAAAACC	CAATCTGAGC	240
AGGTTTTAAC	TAAATACTAA	TAATTCTGAC	ACTAGAACGT	TATGTAGCTA	ACAAAAATAT	300
GTCGTAAAAA	TAATCATGTA	GAAACTGGCT	CGAG		•	334

- (2) INFORMATION FOR SEQ ID NO:706:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 369 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

GAATTCGGCC	TTCATGGCCT	ACCGAGCTTC	AGAGCATCAG	CAGTGTTCCT	CCTTCACTGT	60
GACGCTTGTC	CTCACTTCCC	AGGTGAGGAG	TCTAAGAAAA	CAGCCTTTCC	ATCAGCCCCT	120
GTCGTGACAG	ACCCTCCAGT	GGGATGGTAG	TGGCTGCCTC	ACCCATTTAC	AGGGCAACCC	180
AGTTTTGCTC	CTTCTGCCTT	GAAATTTGTT	CCTCCCAGAA	ACTGTCCCTC	ACAAGGCATG	240
AACAATCAAT						300
AGTGCCCCGT	CCGGAGTCCT	GAACAGCTTC	AAACTTTTCC	CCTTTAGAAA	TGCCTAACAC	360
GCCCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:707:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 365 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

GAATTCGGCC	TTCATGGCCT	AGGCATCCTT	GGTGCGGCAT	CCTTGGTGCA	TTATATCAGG	60
AGGCAAATGA	${\tt TGTGGGTTTG}$	TCCCATTGTT	TGTAATGGTA	ACATTGGTTG	CTTGGTTAAG	120
GTGAAGGGTG	CCAAGCTTCT	CCACTGTAAA	GTTCCTATTT	TTTTCTCTGT	AATTAATAAG	180
TAATTTGTAT	GATACTTTGA	GATAACAAAG	TAGACTGTTC	ATCAAACTTT	CATCAATGAA	240
TTTAACATCC	AAAGACGCCT	CAAGAATGAT	CATCAAAAGC	AGCCTACTAA	TGACTGTCAT	300
TTACCATTTA	ATACATTTCA	AACAGTGCAC	GTGCTCTGTG	ACATATTCTG	GGAAGGAATC	360
TCGAG						365

- (2) INFORMATION FOR SEQ ID NO:708:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 436 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:

GAGCAAAGAG	CATGAGAAGC	TGATGGAGGG	AGAACTTGAA	GCTTTGCGGC	AGGAATTTAA	120
AAAGAAAGAC	AAGACGTTGA	AAGAGAATTC	CAGAAAGTTG	GAGGAAGAAA	ATGAGAATCT	180
CCGAGCAGAG	CTACAGTGTT	GTTCTACACA	ACTGGAATCC	TCTCTCAACA	AATACAACAC	240
CAGCCAGCAA	GTCATCCAAG	ACTTGAATAA	AGAGATAGCC	CTTCAGAAGG	AGTCCTTAAT	300
GAGCCTGCAG	GCCCAGCTGG	ACAAAGCTCT	GCAGAAGGAG	AAGCACTATC	TCCAGACTAC	360
CATCACCAAA	GAAGCCTATG	ATGCATTATC	CCGGAAGTCA	GCCGCCTGCC	AGGATGACCT	420
GACACAAGCC	CTCGAG					436

- (2) INFORMATION FOR SEQ ID NO:709:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 383 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

GCTGCTCTAT	ATCTTAGAGA	AAATAAAAGA	ACCACATGTT	GCTTCCCTGC	CTGCAAGCTC	60
TTCTGAATTC	ATCACCATTC	ATGTTCCTTC	CTTCAGGGGA	AATGAAGGCA	GATTGTTCTG	120
TTGGTGCTCA	CAGATCTCTT	TCTGTTCTGA	TACCCTCCTC	TTCCTCTCCT	GCTTCTTTCC	180
CTTCATCATG	TGCTCCTATA	CAAGTCTCTC	CCAACTTTAA	AACAAAAACA	AACCCTTCCC	240
TAAATCTTGT	GTTTGTTCCA	GCCATTAGAC	TGTATCGTCC	TTGCCATCCA	CGTTATTGGA	300
AGAAGGCCAG	CTCACCTCTA	CTCCCTTTCT	GCCCTTTCCC	TCTTAATCTG	CTGTCCTCTG	360
ATTTCTGCCC	CCACAAACTC	GAG				383

- (2) INFORMATION FOR SEQ ID NO:710:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 496 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

GAATTCGGCC	TTCATGGCCT	AGGGGCCTGA	AGATCTTCGG	GTATTTGGCT	CCCAGAATCT	60
GACCACAGTG	AAGCTAAAAG	${\tt GGGTGGGTGA}$	CAGCTTCAAG	AAGTATCCTG	ACTACGAGTC	120
CAAGGGCATC	AAGGCTCACT	TCAACCTGGA	TGAGAGTGGC	GTGCTCAGTC	TAGACAGGGT	180
GGAGTCTGTA	TTTGAGACAC	TGGTAGAGGA	CAGCGCAGAA	GAGGAATCTA	CTCTCACCAA	240
ACTTGGCAAC	ACCATTTCCA	GCCTGTTTGG	AGGCGGTACC	ACACCAGATG	CCAAGGAGAA	300
TGGTACTGAT	ACTGTCCAGG	AGGAAGAGGA	GAGCCCTGCA	GAGGGGAGCA	AGGACGAGCC	360
	GTGGAGCTCA					420
CCCACCCCCT	GAACCTAAGG	GAGATGCAAC	CCCTGAGGGA	GAAAAGGCCA	CAGAAAAAGA	480
AAATGGGGAA	CTCGAG					496

- (2) INFORMATION FOR SEQ ID NO:711:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 475 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

	${\tt GAATTCGGCC}$	TTCATGGCCT	AGTATGGAAG	GTGGAACTAA	AACTGAAATG	ATCAGTTCAC	60
	ATATTTGTAA	ACTGCGTATT	TTATATCAGT	CGCTGGATTA	GGCCCCTAGA	GACAGTGGTG	120
	GCTAAGTGAT	AAAGTCTTTG	CGCTTGTGGC	ATTTTATAGT	GTAGTGGGAA	GACAGAAAGC	180
	AAACAAGTAG	AGAATCATAT	ATGTAATGTG	ACCTCAGGTC	CAGCTAAGCG	CCAGACAGAA	240
	GAAAAAAGTA	AGGTGAAGGT	AGAGGGGTTG	GAGCAGGAGG	AAGGTGTTAT	TTTAGGTAAA	300
	GTGGCCAGGG	AAGGCCTTTT	GAAGAATTGA	TATCGATTCC	AAAATGATGA	GAAGGTGCAA	360
	TTGTGCCACC	ATGGAGGAGA	AGAGCTTTCT	AGGCAGAGGG	CAGGTGCAAA	GATGGTAGGA	420
•	ACAAACACGG	CTTGTTGAAA	GAACAGCAAT	GTTTGAGGAA	TGAGCCAGAC	TCGAG	475

- (2) INFORMATION FOR SEQ ID NO:712:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 608 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

		AATTTTGCAT				60
GCCCAAAACC	ATTTTCACTT	TGTTTTAGGT	ATTTATAATA	ACAGCACTCC	CACTTCTCAT	120
		GGTTCAGGCT				180
		ATCTCACAGT				240
CCAGCATAAT	TGGGTTCTGG	TGAGAGAGCT	CTCTTGGGTT	TCAGACTGCT	GCCTTCTCAA	300
TGCAGCTTCA	CATGGTGGAC	AGAAAGAGCT	CTCAAGAGTC	ATTTTTAAGG	GCACCAATCT	360
AATTTATGAA	GCCTCCACCA	TAATAAGCTA	ATTACTTCCC	AAAGTGCTGA	GATTACAGCT	420
GTCAGCCACC	GTACCTGCCT	GGGAATTTTT	TTAAAGCTCA	AATTGGATAA	GAGGGTTATA	480
GGAATATATT	CATCTATCAT	ATAGAAAAGA	ATATGTGCTC	AGTCCCAGGA	AATAGAAAAT	540
ATATTACCTT	ATTTATACTG	TTTTAATTAA	TGCTTTTTAA	AATCTGATTA	ACTCTGGGAG	600
AGCTCGAG						608

- (2) INFORMATION FOR SEQ ID NO:713:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 531 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

GAATTCGGCC	TTCTTGGCCT	AGTGCACTCC	TGTAATCCCA	GCTACTCGGG	AGGCTGAGGC	60
AGGAGAATCA	CTTGAACCCA	GGAGGTGGAG	GTTGCAGTGA	CCCAAGATCA	TGCCACTGCA	120
CTCCAGCCTG	GGTGACAGAG	CGAGAACGTC	TTTAAAAAAA	AAAAAATT	AAAAAAAAGA	180
		CCCAGAGCTC				240
		AGGTTTAGCA				300
GGGCTAGGCA	CAAAGGAAGG	GGAACATGTC	AGATGAGAAA	CACGTGAAGG	TTCAGCCAGA	360
TGAGCAAGGA	AGGTTGGTTA	GAAAGAGGAG	CTGCTGGTGT	GGCTCCTGTG	AACACAGGTA	420
GATAGGGCAC	GATAGAGTCA	GGCAGTTAGA	AGCCAAGCTG	AGGAATCGAC	ACTTGATTCC	480
ATAGGTAAGT	AGGGGAACTT	GAGGATGTTT	AATCAGAAAT	GAGATCTCGA	G	531

(2) INFORMATION FOR SEQ ID NO:714:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 499 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

GAATTCGGCC TTCATGGCCT	AATTTATCCC	ATCCTTATCC	CATCCTTATA	AGGAATAATG	60
TATTGAATAA AGATTGTATC	AGTATTTGTA	ATTCAATAAA	CCAGAACTTG	TGGAAATAAA	120
TATGTAGGAG ACATAAATAT	GGTGTCCTCA	AATTGAATTA	TGTGGGAAAA	AAGTGGGGTG	180
GAGTTAAAGT CCAAGCCAAT	AAAGTTGTAA	CATTAAAGAA	AGACAGGTAT	GGGATGCAAG	240
GTGCAAAGAA AAGGTCATCA	TATCTCATAC	TGGGGTGAGA	TAGAAGACTT	CCTGAAGTAG	300
GCGATGCCTA TATTGAATCT	ATAAGGACAA	ACTGGCATCA	ATATGTCAGG	GAAGACAGGT	360
TGAAGGTGGT CCTGCCAGAG	AAAGGAGCAA	GGATAAAGGC	AAGGAAGCAT	GTAACGTAAT	420
TGTTTGTGGA GAAACCTCAA	ATCGGCTGAG	GAAAAACGAC	TCAGGTATGT	AGTAGGGCAC	480
AGTATAAGTA GGTCTCGAG					499

- (2) INFORMATION FOR SEQ ID NO:715:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 430 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

GAATTCGGCT	TCATGGCCTA	GAGATTTAAT	GTTCCCTTAC	CTTGCTGGAG	GAACATCAAT	60
GTTGGAGGAA	ACAACTTTTC	TTTTTTGCTC	AAGGAGACAG	ATGGAGCGAG	TGTTTTCTTT	120
TTCATGGTCA	AGGATCCGGC	TGGCTTTTTT	GGTGTCTGCT	GTTTTCACAT	CTTCCTCCAT	180
GGCCAAGGAA	AACACGTGTT	GATGAGACAT	TTTTTTACCA	CAGTCACGTT	TTAAGTCCTC	240
TGACTGAAAT	GTGAAGGTCA	TTTCCCGCTT	AATGCTCCCC	ACCTGTGAAA	TGAAACACAG	300
AAATTCTTAC	TCACATAAAA	CATCACCTTT	GTACGACTAC	TGCAGATGGC	GGTGAGGAGA	360
GATTACAGAC	ACTGTCCTTC	CTGTTCATCT	GAAAGATTGT	ATAATTTTAA	TAAGAAAAAT	420
GCAACTCGAG						430

- (2) INFORMATION FOR SEQ ID NO:716:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 471 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

60	CCAAGTTCCG	GGCAAGCACG	GGTGAACGAG	AGACCTTCTG	TTCATGGCCT	GAATTCGGCC
120	GCCGCCCGCT	CACTGGGAGG	GATCGAATGG	CCGAGCCCGA	ATGGGCAAGC	CTGCTACGTG
180	TGCTCAAGGT	GGCGGCTTCG	CGACCGCGAC	TCATGTACCG	CGCCGCCGCC	GCTCCCGGAC
240	ACTCGGCGGG	GCCGCGCGCA	CTACGTCTGC	ATCGTGGGCT	CAGGCCAAGG	GCTCTACTGC
300	TCACACGGCC	CGCCTCCGGT	GAAAGAGCCC	AGCTGCACGT	AGTGCCGTGC	CCAGACGCTC
360	AAGTACCCAA	CTGGAATGTA	GATTGCCGTG	GTGAGCACGG	GTGGAGGGCC	CCTGCAGGAC

CTCCCGCATC CCCACGGCCT GGTTCCGTGA GGACCAGCGG CTGCTGCCCT GCCGCAAGTA CGAGCAGATC GAAGAGGGCA CTGTCCGGCG CCTCATCATC ACAGGCTCGA G	420 471
(2) INFORMATION FOR SEQ ID NO:717:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 397 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:	
GAATTCGGCC TTCATGGCCT AGCCACTCTT AGCAACACAG ATTTTCTTCC AAATTATGCC TTGAAGCTGC TCCCGGAGCC ACCCGCTCAT CAGCACCCTG CTCCTGTGGT CCTTCTCGTG AAAGGCAGAG GGGAGATGCC TGTTGCCCGC AGTCTTCTCT GCAGCTGCCG TGGGAACAG CACCTTCCCG GCTGCTGGGG ACACAAGGAG GGGGAGTCAC CGTGGCTTGC TCACTTTCCA GATCAGCCAA CTGCAGAACA TTTGTTGTTG TTTAGATCCC ACGTCTGACG GTTTAGAACA GCTTTTATAA CATGGTTAAA CATGTTTACA AAGCAAGGGA GACATCTCTT ACCTTGACAA CACGAGGCTC CCACAGACCG CCTTCCCCCA GCTCGAG	60 120 180 240 300 360 397
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 539 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:	
GAATTCGGCC TTCATGGCCT AGAAGGAAAG AAATTTTATG TGAGAGAGCA TCTTGTATGG CAAATTCTTG TCCTAAAGTA GAATGACTAG GAAAGAGCAA AATATAGGAC AAGTCAGAAA GTCATAAGAT GGGAAAGAAA AACTTACAAC TGCTAGATCT TCTCCTGTCT AGAAGTGTTG TGTGTGTGAT GCTTAATGA AGGTACTCTA ATTAATTGGA TTAAGAGAAA ATGAAACCCC ATCTCTACTA AAAATACAGA ATTAGCCGGG TGTAGTGACA CATGCCTGTA GTCGCAGCTA CTCAGCAGGC TGAGACAGGA AGATAACTTT AACCCAGGAG TTGGAGGCTG CAGTGAGCCA AGATCGCGCC ACTGCACTCT AGCCTGGAG AGACAGAGCG AGACTCCGTC TCAAAAATGA AAAAGTAGAG CCTGGTAGAG TGAAGCCACT TGCAGGAGTC GTTTAGTTAG GGCTGTGTTG CCTTACAGTG CTGGTGTCCT CACAGATGAT AATAGTAATA AAAAACACCA CAACTCGAG	60 120 180 240 300 360 420 480 539
(2) INFORMATION FOR SEQ ID NO:719:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<ul><li>(A) LENGTH: 387 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
<ul><li>(A) LENGTH: 387 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	

AGTAAGCAGT TCTGTTATAC ACTCTTTATA TGCTTTTCCT CCTTTCCTCT CTCAGTCTCT CTGATCCTCT CACCTGTGCT CTGGGTTCAC CTCTCAAGTA AACCACCTGC ACACAAGTCC CTGTCTCAGG CTCCATTTGG GGAAACCAAA CTAAGACACC ACCTCAAAAC ACAGAATTTC ACGAGGCTCC AAATGCCTCA GAAAAGTAAT GTAAATATAA AATGACCAAT TTTTTGAAGT ATATTAATCC TAGTTATTTA ACTCGAG	180 240 300 360 387
(2) INFORMATION FOR SEQ ID NO:720:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 239 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:720:	
CCCGTGTATA GTTTGCAAAT ATTTTCTCCT CTTCTGTAGG CTGTTTACTC TTGTTGATAG TTTCTTTTGC CATGCACAAG CTTTTTGGTT TAATTAGATC CCATTTTGCTA ATTTTTGCTT TTGTTGCAAT TGTTTTTGGC GTCTTCATCA CGATATCTTT GCCAGTTCCT ATGTTCAAAA TGGTATTACC TAGGTTGCCT TCCAGAGTTT TTATAGTTTT GGGTTTTAT TTACTCGAG	60 120 180 239
(2) INFORMATION FOR SEQ ID NO:721:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 323 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:721:	
CTCGAGCACT ACCCTAGACG GTCTCATCAC TATACTGGCT CCTCCTTACC CCCGTAAATC TCCCAGGTAC ACTTCCTGAT CACCCTCCGG ATACCTCATC CCTATCTATT CCTTTTATAA ATAATTCCCT GCTCCTCCTT CTCACCCACA ATCCACTCGC AGTTCAAGGC CTCACTGCCA TCGACTCCAC TGTCTGTGAG TGCTTCCCAA TATGCCCCAG GACCCCTCCT GGTGTCACGC TCTGTATCCT GACACCCCTT GTAGACGAGT CCCGAAATTC CCGCCCCGTC CCTGGAGCTC CCTAGGCCAT GAAGGCCGAA TTC	60 120 180 240 300 323
(2) INFORMATION FOR SEQ ID NO:722:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 275 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:722:	
GAATTCGGCC TTCATGGCCT AGGCCTGTGG AGCCCCAGCT CTGGGTCCCT AGCCCGGGTC	60

120

180 240

CAGGCAGCCA GGCTCCCTCC TGAGCTGAGA AACGGAACCT CGCGAACCAC TGGTGGCACA

TCCTTCTCCT CCCCCGCCCC TGATCACCCG CCCCCGGATC AGAAATATAT CTATATTCTC

GACTAAAGTC TCATCAGGAA ATATTTCCTG TCTTTTATTT TAAGCATCAA ATTGTTTTAG

TTGATTTAAA AAGGAAAAAA TACAGACGAC TCGAG

- (2) INFORMATION FOR SEQ ID NO:723:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 317 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear

  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

GAATTCGGCC	TTCATGGCCT	AAGAAGCAAC	AATCATATTA	GCTGGGGGAG	GAGGATAGTT	60
TGGTATTTTT	GTAGTTTGCA	CAGTGACCTT	TTTAAAAATC	TGGTTAGGCA	AAAATAGTGT	120
GATCTTGTTT	GTTGTCTCAC	TTCATTATGA	TCACAGAATG	ACCTGGTATG	ATGTTAGTGT	180
TTTATGAGAG	TGTTATGTTT	TAACAGGGGA	ACACCGCAGT	CAATTCCTAA	CAACACTAAA	240
GTGTCAGTTC	TGTTCGTGAC	ACCAAGGGCT	GTTTTTCTTT	TTCTCATATA	ATGTTGAGGC	300
AACCAGGAAG	ACTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:724:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 267 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

GGCCTCAGCA	GGTGTGAAGC	GTGTGCTTTA	GTTTCGTGGG	AGGCCTGGCA	TCCCCGAGAG	60
GGAGGGGAAA	${\tt GGTAACCACT}$	CCTTTGTGGA	${\tt GGTCGCCAGG}$	GTCATTGTCG	TGGATTTGCA	120
CAGTCGGCTG	GGCGGTGCAA	TGGCGGAAAG	AAAAGGAACA	GCCAAAGTGG	ACTTTTTGAA	180
GAAGATTGAG	AAAGAAATCC	AACAGAAATG	GGATACTGAG	AGAGTGTTTG	AGGTCAATGC	240
ATCTAATTTA	GAGAAAGCAG	ACTCGAG				267

- (2) INFORMATION FOR SEQ ID NO:725:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 354 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

${\tt GAATTCGGCC}$	TTCATGGCCT	AAGTCAGTGG	TAAGCCGCAG	CAGTTTCCTG	CCACTCGTAA	60
TATGGCAATT	AAAAATTTTA	AATTTGTGGC	TGCTTGGGGT	CTGGGAGGTG	ACCTGCTCCT	120
CAGCAAATTT	TGACTGATAA	ATTAATGCCT	GGGTCTTCAG	CCTGGTTCTT	TGCTGGCCAG	180
TGTGACAACA	GTCTGTCACG	TCTCTGGGGG	CACATTATAA	TTAACAGATG	TAATCTTTCT	240
CCGGTTCAGG	GTCATCTGTG	AATCAGGGGT	ACTGCCCCAG	TAGAACTAGG	AACATCCAGC	300
AAAAGACTGT	TTTCAAAATA	TACAATTAAG	TGAAAAAAGC	ATGAAGAACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:726:
  - (i) SEQUENCE CHARACTERISTICS:

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(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:726:	
GAATTCGGCC AAAGAGGCCT AGAGGTTGAC CTGAAAAACA ATGAAACACA TGAACACACT TCCGATTTC TCCTCGCTGA TTAGCTTCCT GCCTGCTGTC AGTGCTGGAC GAAGTGCTAT AACTACTTTA TGTAACATTA CAGAACAGCT CGAG	60 120 154
(2) INFORMATION FOR SEQ ID NO:727:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 338 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:727:	
GAATTCGGCC TTCATGGCCT AGTGGGAAGA TGTGGATGAT GAGAAGGGAG ATAGCAATGA TGACTATGAC TCTGCAGGCC TATTGTCAGA TGAAGACTGT ATGTCTGTGC CCGGAAAAAC TCACAGAGCT ATAGCAGATC ACTTGTTCTG GAGTGAGGAA ACAAAGAGTC GCTTCACGGA GTATTCGATG ACTTCCTCAG TCATGAGGAG AAATGAACAG CTGACCCTAC ATGATGAGAG GTTTGAGAAG TTTTATGAGC AATATGATGA TGATGAAATT GGAGCTCTGG ATAATGCAGA ATTGGAAGGT TCTATTCAAG TAGACAGCAC GACTCGAG	60 120 180 240 300 338
(2) INFORMATION FOR SEQ ID NO:728:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 433 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:728:	
(XI) Bigoiner Bibenii IIon. Big Ib No. / 20.	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGAACTCTC CCAGAGAAAC CAGGCAGATA CTGCTCCACA CCGGTGAGCT GCTTCTACC TGGGTAGTCT AGGGTGGTTT GCTCCAGAAT TGTATTTCTG CTTTTTCTTT TTTTAACTTG GCAGTGGTTA ACCATTCCCT GGAGCAGCAC CAGGTAAGTC AGCTTGTATC AGAGTCATCT GCTTTACCTG ACATGAGCAC ACGTTGTCAT ATATTTGCAC ATGCAGATAT CATATGTTAA ACAATATCAC ATTGTTGAAG AAAATTACAC TGGAAAGCGT AAAATATAGT TTGGATGCCA TATTGAGTGT AACTTAATCC ACCCGATTCA GAACTTTTGT AGAGTGCCTC GGAGTTCCTA TTTGGAAATA TCAGTTAGCA GTTTTAGTCA GTAGAGACTC GAG	60 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:729:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 315 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

(A) LENGTH: 154 base pairs

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:

GAATTCGGCC	TTCATGGCCT	AACAAGAAAC	ACCAAGTACC	TCGACCTCAA	GAATTCACAA	60
GAGATGCTCC	GCTACAAAGA	GGTCTGCTAC	TACATGCTCT	TTGCCCTGGC	TGCCTACGGG	120
TGGCCCATGT	ACCTGATGCG	GAAGCCCGCC	TGCGGCCTCT	GCCAACTGGC	TCGGTCCTGC	180
TCGTGTTGCC	TGTGTCCTGC	GAGGCCGCGG	TTCGCCCCTG	GAGTCACCAT	CGAGGAAGAC	240
AACTGCTGTG	GCTGTAATGC	CATTGCCATC	CGGCGCCACT	TCCTGGACGA	GAACATGACT	300
GCGGTGGGAC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:730:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 156 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:

GAGTTGTCTC	TCTGAATTAA	CTTTCTCACC	AATAGCTCCT	CTTTAAGATC	AATAACTCTT	60
ATGTTTGCAC	TTTTTAGGCT	ATTTTCTAGA	TCTTGTATGT	GTGTCTTATT	ATTTTTTATT	120
CTTTTTGTCT	CCTCTGTGAA	TTTTCAAATA	GTCGAG			156

- (2) INFORMATION FOR SEQ ID NO:731:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 223 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:

GAATTCGGCC TTCATGGCCT	ACTTGAACCT	AGATCTCACC	CCCAGGATGT	TGCGGAGGCT	60
GCTGGAGCGG CCTTGCACGC	TGGCCCTGCT	TGTGGGCTCC	CAGCTGGCTG	TCATGATGTA	120
CCTGTCACTG GGGGGCTTCC	GAAGTCTCAG	TGCCCTATTT	GGCCGAGATC	AGGGACCGAC	180
ATTTGACTAT TCTCACCCTC	GTGATGTCTA	CAGTAACCTC	GAG .		223

- (2) INFORMATION FOR SEQ ID NO:732:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 309 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

GAATTCGGCC TTCATGGCCT AAATTATTGC AAAGTGTATA TTGGTTAAAA AAAAAAAGGA

GGAAGAGGCA GTTTTCATG ACGGTTAAAA GTGCAGGATT TGGAGTCCCA TGGTCCTGGG

60

TGTGAATCCT GGCTGTGGCA CTAACTATCT GTGTGACTG CTGTGAACCT CTC ACTTTCTTCA TCTGCAAAAT GGGTAGTTGT ATAGCAAATG CACATAGAGA ACA CTTTGGCACA TTGGAAGCAC TCAGTAAATG TTAATTGTTA TTATTGTTGC TCT. ATCCTCGAG	CTTAACA 240
(2) INFORMATION FOR SEQ ID NO:733:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 275 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:733:	
GAATTCGGCC TTCATGGCCT AGATTAATTC TAGACCTGCC TCAGCTCCAC TCC TTGCCACCAT AACCTACAAC ATTTGTCCGT CCACCCACG TGTCTTCTTC CTT GGAACTCTTA TCTCTGCCTA CCAACCAATT GGTCAGGAGC ATGCACCCTA GTG CTCCAGGACAT TAACATCCTG CCAAACAACC AGACCATCCA GGTTCCTTTA GTG. TCTCATCCTC TTCCACATGC AGTAGGCAGG TCTAG	TGTGGCA 120 TCTCAAT 180
(2) INFORMATION FOR SEQ ID NO:734:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 250 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:734:	
GCAGATCAGA GGCACGTTTC CCACAACTGC GAAGAGGCGC TGAGGCAATT CTG ATTTTGGGGT TTTGGAAAAG AAGCTATGGA AAACGGAGGG GCAGGCACTC TGC GCAAGTCCTG CTTTTCTTTG TTTTGCTGGG AATGTCTCAG GCGGGCTCTG AAA CTTTTTGGTG ATGGAGGAAT TGCAGAGCGG GAGCTTTGTA GGAAATTTGG CAA GGGACTCGAG	AGATAAG 120 CTGGGAA 180
(2) INFORMATION FOR SEQ ID NO:735:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 324 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:735:	
GAATTCGGCC TTCATGGCCT ACACAGACTG GGCAATTTAT AATGAACAGA AGT GCTCTTGGGT CCAGAGGCTA GGAAGTCCAA GAGCATGGTG TCAAGCATCA GGT ATCACCCCGT GGTAGAAGAT GGAAGGCAGA AGTGAGCGTG TGAGACAGAG AGG GGACTCAACT CATCCTTTTA ATCAGGAACC CACTCTGTCA GTAACGAACC CAT	GAGGATC 120 GAGAATT 180

TGGAGTTTTG CTCTTGAGCT CGAG

(2) INFORMATION FOR SEQ ID NO:736:

ATAATGGCAT TAATCCATTC ATGAGGCCCC TACCTCTTTT TCTCCCCCCG CCCCCCGAGA

300

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 259 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:	
GAATTCGGCC TTCATGGCCT AAACACATAC CAGATTCTTA GATTCATTTG GTGAAGGAAG CCTCTGAATT AAAACTTTTA AATATTTCTG ATTTGCAACC AGACGAAAAA GAAGAAAATT GACAACTTTT TTGATGCAAC TTTGTGAAAT CATGGTGTTC CTGGTTTTTC TTTGTTTTG TTTTGTTTTG TTTTGCCACA GTTTAGTTCC TCACCTGATC TTTCCTTGTA TCCACTTCAG AGTCTCGAG	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:737:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 409 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:	
CTCGAGGCGG TGCCAGACAC GGGTCTCCTC CGACTGGGCG GTGCGTGGGA TGCCGCCAGC GTCCAGGTAC TGCGTGATGC GGATGTAGGC GATGCAGGCT GACTCGTCGC CCATCAGGTG GATGTGGGGA TTCAGGATGG TGGTGTGCAC GGGCTTGCTG TTCCGGGACC ACAGGTTTTC AAAATAGAAT CGATGGAAGT CCAGGCCCTC AACCAGGTTC CCCAGGGCCT CAGGTTCGAA GGCTGTCATG CCAGGGTCGC ACATCTTCGT GTAGGACTCA AAATCTCCAT TGCTTATGGC TTCAATCAGC TGCTCTGTCA CTTTTATAAT TTCCTGTTTC CGCACTTTGG TGTCTTCATC CTCGATGGTG GTGTTGGTGC TCTCTGAGTA GGCCATGAAG GCCGAATTC	60 120 180 240 300 360 409
(2) INFORMATION FOR SEQ ID NO:738;	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 466 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:	
GAATTCGGCC TTCATGGCCT ACTTTCCCCT CCTTCCTTCC CCTCCCTCCT CTCTCCTC	60 120 180 240 300 360
336	

AGTAAACCTA ACTCTGAAAA ATAGAGACTC TCCAGAAACA CTCGAG

ATTCAGTTGC ATTTTTGCTG AGATAGTGCT GTTACCAAAA GCAGGGGTGC TGCTTGAAGA

420

(2) INFORMATION FOR SEQ ID NO:739:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 367 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:	
GAATTCGGCC TTCATGGCCT ACATTCTGCA AACTATTTTG TTATTAGCTT TTTCACTTAA AAATAGCCCT GCTTGCAAGC AGGCTCTGTG GTGCAATGGA TAGCGCATTG GACTTCTAGC CTAAATCAAG AGATTCAAAA ATAGCCCTGC TAAATATTTG CAATCTTTCC TACGCTCCTT TTTCCCCCAA AGTGACTTTG GATATCCAGA GTTACCAAAT CTAGTATTTG AAGTCCTTAG GTTTGAGGGT TGAAAGTGAA AGGCAAGCTG TTTTAATGAA AATTCCTAAC TGAAGAGAGC GGAGACTTAA GATGCTTAAA TTTTGGTCAC ACCTGAGCGG TATTTGTTTG CATGGCAGGA GCTCGAG	60 120 180 240 300 . 360
(2) INFORMATION FOR SEQ ID NO:740:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 264 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:	
GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA CAAGGATATC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT GTGTTTGAGT GTAAGAAGCT CGAG	60 120 180 240 264
(2) INFORMATION FOR SEQ ID NO:741:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 318 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
•	
(ii) MOLECULE TYPE: cDNA	60 120 180 240 300 318

- (2) INFORMATION FOR SEQ ID NO:742:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 256 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

GAATTCGGCC TTCAT	GGCCT AAGAAATGAA	AAAGATTATT	GAAACTATGC	CAATGACTGA	60
GAAAGTTGAA GAATT	GCTGC GTGTCATAGG	TCCATTTTAT	GAAATTGTCG	AGGACAAAAA	120
GAGTGGCAGG AGTTC	TGATA TAACCTCAGT	CCGACTGGAG	AAAATCTCTA	AATGTTTAGA	180
AGCTGAAAGC AGTGA	CAGTG GAGCCGAGTC	TGAGGAAGAA	GAGGCCCAAG	AAGAAGTGAA	240
AGGAGCAGCC CTCGA	.G				256

- (2) INFORMATION FOR SEQ ID NO:743:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 580 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAATTCGGCC TTCATGGCCT ATGTTTTTAT AGCACCGATG GTACTGTTTT ATT	TTATTGCC 60
AATAGACCAC AACATTCACA TCTGTTTTTC CTCAAGGGAA CCGTATTTGC TTT	TTGGTTGA 120
AGGATTTATC TATTTGATAC TATCCAGAAT ATTGTGAAGC TATAATTTCC TGG	GTTATAT 180
TTTAGATGGG TTGTCTGCAT GGTGGTAAAA TAAGCTTTTT CCTCTCGCCT ACG	
GAAGATCTCC TGATCATACA TAACTAGGTA GGGCTTATTC TTGCTGCCGG AGC	
CCAGCTCTAG ACTGTTTCTT TGAGCATTAC TGCAGATTGG AGACGTGTGT GAG	
GCGCTCAGAA ATAGGGCTTG AGGCTCAAGC AGAAACTGAA GCTCTCATTC AAA	ATGAAGAT 420
GCTCTCTCTA CCGCACGATC GGCAGTGAGA AAAGGAGGAT GAAAATCCTT CTC	CATCACAA 480
AGAGCTTGAA GGAACCCACG TCCCCAGATT AGCAACCCTA GAGTTCATCT GCT	CAGGCCG 540
GGAAATGTGT AAGCTTCCTT GATCAACTCC AGGCCTCGAG	580

- (2) INFORMATION FOR SEQ ID NO:744:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 374 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC	TTCATGGCCT	ACCCAGAGAC	TCGCGGACGC	TCACCATAAC	CAACCACCAC	60
CGCGANCCAA	CCCCAAAATA	ACATGGCAGC	CACACCAAMM	TOTOLOGICA		• •
						120
		AACGATATCA				180
AACTCTTCAG	TTTAAAGCTC	AAGATCTCTT	AAGGGCAGTC	CCAAGATCCA	GAGCAGAGAT	240
		ATGGCAGATA				. 300
AGATGCCGGA	AGAGAAGGCC	TGAGAAGTGA	CGTATTTCCA	GGGCCTTCCT	TCAGATCAAG	360

CAACCCCTCT CGAG	374
(2) INFORMATION FOR SEQ ID NO:745:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 323 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:	
GAATTCGGCC AAAGAGGCCT ATTGGTTTCC CTGCTTCCAT TCTTACTCCC CTACACTCT TTCTCCAAAA AATAACCATT GTGATCCTT AAAATCCTGA CTCTCTCTG CTCAGAGTC TCCAGTGGCT TCCCATATCA CGTAAAATGA AACCCCAATC GCTCCTTACT CTGGCCTGC GGGCCTGTG TGATGGGCCT TCTCCAGCTT CGTTCTTCCT TTCCTTCTGT TCTCCCCTC GCTTACCTAC TCCATCTCCA GGGCTTCTTT CCAGCTCAAG CCCTTTCCTG TTGAGAGCA	CA 120 CA 180 CT 240
(2) INFORMATION FOR SEQ ID NO:746:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 273 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:	
GAGAACAGTG TTACCAAAGA AAAGGACATG TTCAATTTCA AACGAGCCCA GGAGGACAT TCTAGACTTC GCAGGAAGCT GGAGACCACA AAGAAACCAG ACAATGTACC CAAGTGTGA GAGATTCTGA TGGAAGAGAT TAAGGATTAC AAGGCACGCT TGACCTGTCC ATGCTGTAA ATGCGTAAAA AGGATGCTGT TCTTACTAAG TGTTTTCATG TCTTCTGCTT TGAGTGTGT AAGACACGCT ATGACACCCC CCCCGGCTC GAG	T 120 .C 180
(2) INFORMATION FOR SEQ ID NO:747:	
(i) SEQUENÇE CHARACTERISTICS:  (A) LENGTH: 666 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:	
GAAGATCTTC GCTGTCCTCT CTGCCTCTAT CACACCAAAT ACAAGCGCAA CATGATTGA CACATCGTGC TGCACCGAGA AGAGCGTGTT GTCCCCATTG AAGTTTGCCG GTCCAAACT TCCAAATACT TGCAGGGAGT AGTTTTCCGC TGTGATAAGT GTACCTTCAC CTGCTCCAG GATGAGAGCC TCCAGCAACA TATAGAAAAG CACAATGAAC TGAAACCTTA CAAATGCCA CTCTGCTACT ATGAGACCAA GCACACGGAG GAACTGGACA GCCACCTTCG GGATGAGCA AAGGTAAGCC GTAACTTTGA GCTGGTTGGA CGGGTTAACT TGGATCAGCT GGAACAGAT AAGGAGAAAA TGGAGAGCTC CAGCAGCGAT GATGAGGACA AGGAAGAAGA AATGAACAG	TG 120 FT 180 AG 240 AT 300 TG 360 AC 420
AAGGCTGAAG ACAGAGAGCT GATGAGATTT TCTGACCACG GGGCTGCTCT TAACACTGA	G 480

CATGTGCTGA	CATGTGAATT TTGTGGACGG GCGTTTTCAC AGGGCTCTGA GTGGGAAAGA GACACGGCAT GGCATTGAAT GACACCAAGC AGGTGAGCAG AGAAGAAATC AGATCATGGA GAACAGTGTT AAAATGCCCT CCATAGAGGA AAAGGAAAGT	540 600 660 666
(2) INFORMA	ATION FOR SEQ ID NO:748:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 379 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:748:	
AAGCTACTGT GAAATTAGAC GGGTTTGGTT TGAGATTCAG	AAAGAGGCCT AACAACCGAA TATAGTACAC GACCTTCCTG CAGCAGTTCT CAAGTATGGA AAATCCCGGC AATTCTGTAC TTGTGTTATA CTGATGTGAT CTAATCACAG TGGAAGCTTT TAAGCCTATA CTTTCTACCA GAAGCTTGAA AAGAATATTC CCCAAAGCAC TGAGATACTA AAGAAATTGA TGACAACNAA AGTAACATTT ATACATGATC TTAAACATTG TTTTGTAGTG TATATTACTT TTAAGGGGAG CAGCCTGCAC TCTTTTGTAG ATTACTTTTTG GGGGATATAT ATGAAACGG	60 120 180 240 300 360 379
(2) INFORMA	TION FOR SEQ ID NO:749:	
(i) S	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:749:	
rcacacccca ( ettegegaag ( ecctcetctc ( ateccacete (	TTCATGGCCT AGGCGCAAGG CCGAGCGTTC CCAGCAGGGG GAGAAACCCT GGCCCTTCAG GAACTGGGGC CTTGCCTTGC AGCCACATGG CCCCATCCCA CCAGGTGAGC TCTGACCCTT GGGCCTGGGC CTCTGCCCCT CCCAACCCAG CCTCGACAGC GCCCCTGCTG TCTTCCCCAC CGCAGTCACC ACCACCCGAA GTCACTGTGC ACTGCCCTGT TCATGTGCCT CTGCGGGGCA GGGCCTTCCT ACTGCTGTAC CCAGATAGCC TCGAG	60 120 180 240 300 335
(2) INFORMA	TION FOR SEQ ID NO:750:	
(i) <sub>.</sub> s	EEQUENCE CHARACTERISTICS:  (A) LENGTH: 648 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:750:	
LAGCAGCAGC A	AAGAACTGAA TATGCTCCGG GAACAGACCA CTGGGCTGGC AGCTGAGTTG AGGCTGAGTA CGAGGACCTT ATGGGACAGA AAGATGACCT CAACTCCCAG CATTACGGGC CAATAGTCGA CTGCTGGAAC AACTTCAAGA AATAGGGCAG	60 120 180

GAGAAGGAGC AGTTGACCCA GGAATTACAG GAGGCTCGGA AGAGTGCGGA GAAGCGGAAG GCCATGCTGG ATGAGCTAGC AATGGAAACG CTGCAAGAGA AGTCCCAGCA CAAGGAAGAG CTGGGAGCAG TTCGTCTACG GCATGAGAAG GAGGTGCTGG GGGTGCGTGC CCGCTATGAG CTGGAGCTCC GAGAGCTGCA TGAAGACAAG AAGCGTCAGG AGGAGGAGCT CCGTGGGCAG ATCCGGGAGG AGAAGGCCCG GACACGGGAG CTGGAGACTC TCCAGCAGAC AGTGGAAGAA CTTCAAGCTC AGGTACATTC CATGGATGGA GCCAAGGGCT GGTTTGAACG GAAGCCGAGG AATCCCTGCA GCAGCAGCAG CAGGAACAAG AGGAACCCT CAAGCAGTGT CGGGAGCAGC ACGCTGCCGA GCTGAAGGGC AAGAAGGAGC CGCTCGAG	240 300 360 420 480 540 600 648
(2) INFORMATION FOR SEQ ID NO:751:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 266 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:751:	
GGAAAGAATC TAAAAGAAGA GAAGCGACCG GTGCTTTTAA GGGTGTCTAA TTTTCAAAAG AGACGTCTGG GAGTATTTTG CTCTGGGCGT TTGGGTGAGC AGGACCGGGG CGTTGGAGGG FGCGGCGGCG TTGGGAGCAG GGAAGGTTCC GAGTCCTAGG GAGGCGCAG CGCTCGGCTA FGCCCTCTGG AGACTGGCGG GGCTGCGGGG CCGAGGGGAC CCGCGAGGGA GCCGCGCTGC GGACGCGCTG AGCCGCGGAG	60 120 180 240 266
(2) INFORMATION FOR SEQ ID NO:752:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 288 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:752:	
GAATTCGGCC TTCATGGCCT AGGATGTTTT AAGGCTAGGC CTGAGCGAGG AGGAGGCAGG GGAGACTGG CAGGTATTGA AGTACCTGGG AAGAAAGGCA ATGGGGATGG TGGTCCTGCT CCAAGATGAT AAGTGGAGGC TGAGCGTCAC TGGTACTGGG GGCCATGATC CCCAGGGCCA CCCTGGCACC AGGGTGCAGG GGATGCGGGG CCTGAGCAGG AAGAACAGAG ATCTGCGGGC GCCACCGACC CATCCCTGCC CCTAGGCTGA AGAACGGCAT CACTCGAG  (2) INFORMATION FOR SEQ ID NO:753:	60 120 180 240 288
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 487 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:	

60

120

GAATTCGGCC TTCATGGCCT ACTGAATTTG CTTTTCTTGC CTCTCTTTAG TCACCTGTCA

GCTTCAGATT	TAGAAGAAAA	GATCCTGTTT	CCATTTGAAA	GGAACTGTAA	GCTTTTATCT	180
TTTAACCAAC	TGAACAATAC	ACCAAAAGCA	GCCTAGGGAT	GAGCATTTCT	TTGAAAGCAA	240
TTAGGTTATT	CACCTGGTAT	TAAAACTATT	TACTGTTAAA	AAATCTGTGA	CTTCATGAAG	300
TTGATTTTTA	AAGGCAGCAT	CAAAAACTGA	AAAGGAAGGG	AAAAAATAGG	CAGCTTCTCT	360
GCACTTGTTT	GGAGCTCCCC	AAAACAGGAG	CCATGGAGAA	${\tt GTGGCATCAA}$	GACCGGGCTG	420
CCCTTTCGAG	AACACCCTGT	GGCAGTTCAG	AGACACGCTT	TTCCTACACT	GCATGCAGCC	480
GCTCGAG						487

- (2) INFORMATION FOR SEQ ID NO:754:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 443 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

GCTGGGTTTA	GGCGATCCTC	TTGCTTCAGC	CTCCCAAGAA	GCTGGAGCCA	CAGGCATGCA	60
			TGTGGGGACG			120
GGCTTATCTG	GAACTCCTGG	TTTCAGGCAG	TTCTCCTTCC	TTAACCTCCC	AAAGTGCTGA	180
GATTATAGGT	GTGTGTGAGC	TATCACACCT	GGCCTAGAAA	ATTATAAGAA	AATATTAATC	240
ACATAATCTC	ACTACCCATT	GATGATTTAA	CATCTAGTAT	ATACATATGT	ATATATATT	300
TTAAAAGTAG	GGTTATATTA	TATAATTACT	TCATTATTCT	TGTTTTCCAC	TTAATATACT	360
TAAGATATCT	TTCAAAATCA	CTAAATACAG	GAACATAGTA	TATCATCTTT	CAGTAGCCTC	420
ATTGTATAGC	TAACCCCCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:755:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 584 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

GAATTCGGCC	TTCATGGCCT	ATTGATTTCC	TGGGCTCAGG	AGAGGATGGG	GAAGGGGCTC	60
CAGACCCTCG	GCGGTGCACT	GTGGATGGGA	GCCCCCATGA	GCTGGAAAGC	CGTCGGGTCA	120
AACTCCAAGG	CATTCTGGCT	GACCTGCGGG	ATGTGGATGG	GCTGCCCCCA	AAAGTGACTG	180
GCCCGCCTCC	TGGCACACCC	CAGCCCCGGC	CACATGAAGG	TTCCTTTGGC	TTCTCCTCAG	240
ACGTCTTCAT	CATGGACACT	ATCGGGGGCG	GGGAGGTGAG	CCTGGGGGAC	TTGGCAGATC	300
TCACCGTCAC	CAACGACAAC	GACCTCAGCT	GCGATCTGTC	TGACAGCAAA	GATGCTTTTA	360
AGAAGACGTG	GAACCCCAAG	TTCACCCTGC	GCTCGCACTA	CGACGGCATT	CGTTCCCTGG	420
CCTTCCACCA	CAGCCAGTCG	GCTCTGCTCA	CCGCCTCCGA	GGACGCCACG	CTCAAGCTCT	480
GGAACCTGCA	${\tt GAAGGCGGTC}$	ACGGCCAAGA	AGAATGCGGC	GCTAGATGTG	GAACCTATAC	540
ATGCTTTCCG	GGCTCACAGG	GGCCCAGTGT	TGGCTGGACT	CGAG	•	584

- (2) INFORMATION FOR SEQ ID NO:756:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 285 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

					ATTTTTTCTT	60
CTCAGTGGAA	TTTGCTGAGT	AAAAAATTAT	AGGCTCAAAA	ACTGAGAACT	TTGAAGATAT	120
					AGTCTGTTGC	180
TTGCTCTTTC	TAGGTAAACT	GTGCTTTTTA	TATTTTTTCC	CCTCTAGAGG	TTTTGAGAAT	240
TTACTCCTTA	TCCATGTTAT	TCTTAAATTT	CACCACATTC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:757:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 310 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

GAATTCGGCC	TTCATGGCCT	AGAATGCTTT	GAATCCATAT	CTTTTTCAGA	AACATACATG	60
GAAATACAGA	ACTACACCTG	TAATTACAGA	GGGCATATGA	ACCCTAGTTT	GATAAGCCTT	120
GCTTTAAAGG	ATGCAGTGTG	TTCTATTAAA	TGTATTTAAT	ACAATTGCAG	AAATGGAAAA	180
TGTGGACCTC	CATTAAACAA	ATTTTTTAGT	TCCTAATGAG	ATAAACTTGG	GACCAAACCG	240
ATTCCTCTTG	TTTTAGTGCT	CAAAAATAGT	TTCATTTTTA	GGTATTTATG	CTTTAGTGGC	300
CTTTCTCGAG						310

- (2) INFORMATION FOR SEQ ID NO:758:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 196 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

GAATTCGGCC AAAGAGGCCT	. AAGAAAAGAA	AGCAAGAACA	GAAAACGAAG	CCACAGGAAG	60
GGAAGTAGAC ATTGTATGCT	TATGGTTTCT	CATTATGAAG	GTGCAGCTTG	TAGGAGGTTT	120
GTACGGATGT GCTTTGAAGT	TATGTATATT	ACATATAACA	GGAAAAAATA	TTAAAATAAA	180
CAGTGCTGGT CTCGAG					196

- (2) INFORMATION FOR SEQ ID NO:759:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 360 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

AAGTCAGATA GAGGTAAGTA CGAAGACCAC AAAGCAGGTT AAAAAGTAAG GTGGGAAAGC GATGCTATTT TAGACAAGGT GGTCAGGGCA AGCCTCTCAG AAGAGGGGAT AAGTCCTCAC AGACCTGACT GAAGTGAGAG TGAGCTATTG ACACGGAGAA GGGCATTTCA GACTCTGAAC AGAAAGCAGG GGCAGGCTTT GGAGGGAGAG CTTGTTTATG TAGACAAGGA GGGGCAAAGA GTCTTGTGGA TAAAGCAGAA TGAACAAGAG TAAATGGGAT TGTAAATGAA ATGACTCGAC	3 120 3 180 3 240 4 300
(2) INFORMATION FOR SEQ ID NO:760:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 192 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:760:	
GGACATATGC AGTCAAAAGT AGGTGCCCAT ATATATAATG AAATACCAAA AGGACAATTT AGAAGGTTGA ATGGAAACAT TATGGCATGC TTTAGACGTT CTGTTTTGGT TTTCTTATTC CCAGTCTTTG ATCTTTTAGG TCTATCCATT GGTAAAGATA TATTAGGACT CACATCAACT CAAGGTCTCG AG	120
(2) INFORMATION FOR SEQ ID NO:761:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 326 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:761:	
GAATTCGGCC TTCATGGCCT AGTTTATTGC TCCCAACTAT ACATCTTCAG ACTTCACTTA GCATGTTACG GGTGGTTAGG TTCCAGGATT ATTGAGATCT ATTTCTACTC ACAATTGCTT ATAAAAATGAA ATCTATCGTC ACCTTAATTG CCTGTGCCTA AAAATATAGC ATGCTTGTCT GGTGGGAAAT ATTCAGCCTG GTATGTGAGT GACTGAAATG CAACTCCGTG GAAACACCCC AACTCCACAC ATTCATCCCC TTGGTAACTC AGCACAGTCA CAGAAACTGA AGAAGTAAAA IGATCCTCTT TATTTGGCTT CTCGAG	120 180 240
(2) INFORMATION FOR SEQ ID NO:762:  (1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 205 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:762:	
GAATTCGGCC TTCATGGCCT ACTGGCCCAA GTGAAACTTT TAACAGGCTT TTTGGAGATC FCTTTAGCTA GATCCAAAAA TTCATCAGGT ATATTTTCTG TTTTCCAAGT TCATGCAGGC AATAGCTTTG CTAATATATA ATACTAGTTG CCTTGTTCAA GCTGCCATAT CAGTTTCATC ACTCCTTTCC CAGTGCCCAC TCGAG	120

,	(2) INFORMATION FOR SEQ ID NO:763:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 285 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:	
	CCACAGGCAG CCAAGTGCCC ACACATTTCC AGGCTGCCCT CCACCAGGGC AGCGACCTCG	60 120 180 240 285
	(2) INFORMATION FOR SEQ ID NO:764:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 345 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:	
C C 3	GCACAGAATA GGATAGTGTG AAGTATCTGA TTAGCTTTAC TGTACTTGGT ACCTTTAGGA CGTTCAGCCA GAGGTGATTG GAGGGATTTG CACGTCTACC ACTCGTGTGT GTATCTGTGA ACCATATCTC CTTTAGTGCC TGCTTTTGAA CTTTATATAA ACAGAATGAT GCTGCCTGTT	60 120 180 240 300 345
•	(2) INFORMATION FOR SEQ ID NO:765:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 100 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:	
C		60 100
(	(2) INFORMATION FOR SEQ ID NO:766:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 333 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

GGATTGAATT	CTAGACCCTG	CCTCGTCATT	GTGGAACCCA	TGGAGCAGTT	TGATGATGAA	60
GATGGCTTGC	CAGAGAAGCT	GATGCAGAAA	ACTCAACAAT	ATCATAAGGA	AAGAGAACAA	120
CCACCACGTT	TTGCTCAACC	TGGGACATTT	GAATTTGAGT	ATGCATCTCG	ATGGAAGGCT	180
CTTGATGAAA	TGGAAAAGCA	GCAGCGTGAG	CAGGTTGATA	GAAACATCAG	AGAAGCCAAA	240
GAGAAACTGG	AGGCAGAAAT	GGAAGCAGCT	AGGCATGAAC	ACCAATTAAT	GCTAATGAGG	300
CAAGATCTAA	TGAGGCGTCA	AGAAGAACTC	GAG			333

- (2) INFORMATION FOR SEQ ID NO:767:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 238 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

GAATTCGGCC	TTCATGGCCT	AGATAATATT	TTATGTTCAT	TGTGTGTTAG	ACTGTGTTGA	60
AGTGGAAACT	TTGGAACATT	GTTGGAACCA	GTAAGAATCC	CATTCCTCAG	GTATCAGGTC	120
GTTAAAGTAG	TTTAAAATAA	CGTATTCCTT	AATTTTCCTC	AGCAGGTTCC	CCCTCCCTTT	180
AACTTGTGTG	TATAAATATA	TGTGTGTGAT	GTTTTCTCTT	ACAAAGATAG	TACTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:768:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 234 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:768:

GAATTCGGCC	TTCATGGCCT	AGGGATCCCA	CCTTTTACAT	CCTAGGTGTG	AACAGATTCA	60
AATCCACTAT	TCCTCCAGAT	TTTATAGATG	AGGAAACCAA	GGTGCACAAG	AGGGATTTTT	120
TTGTTTTGTT	TTTTGTTTTT	GTTTGTTTTT	GAGACAGGAT	TTTGCTTTGT	TGCCCAGGCT	180
GGAATGCAGT	GGCACAAACA	TGGCTCGCTG	CAGTCTCGAA	CTCCTACGCT	CGAG	234

- (2) INFORMATION FOR SEQ ID NO:769:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

GATGTCTCTC GGACACAGAC TGCAATATCG GTAGTTGAAG AGGATCTAAA GCTTTTACAG

120

60

	GAGCCTCCGT GTCCACTAAA TG		
	GCAACTCACT ACAAGCTGCC AA		
TTGAGGCAGA	AAGTGGAGAT TCTGAATGAG CT	CTATCAGC AGAATCTCGA	G _ 291
(2) INFORMA	TION FOR SEQ ID NO:770:		
G)	SEQUENCE CHARACTERISTICS	•	
1-7	(A) LENGTH: 432 base p	·	
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: doub		
	(D) TOPOLOGY: linear	,16	
	(b) for obodi. Timear		
(ii)	MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SE	EQ ID NO:770:	
		•	
	TTGTGAGACT GCCTGTTCTG GG		
TTGGTGAGGG	TCCCCCTCTG CCTCTCACAG AAG	GCCCCTGG CCCTGGACTG	TCCTGGGGGC 120
	GTGGCTGGGG AAGGGATGGC CA		
CTGATGATGG	TGAACCACGA GACAGATGGA GA	CGGGAGTC AGGGGACCCT	GGGGACCCTT 240
CCAGGTCCAG	TGACCTTTTC CCAGACAGGC AC	TCTCCAGG CCTAGGACAG	ACAGGGCCCC 300
	CACCCCATGA CTTGGCCTGG AGG		
	AGGCCAGAAC CACAGGTGGG GG	ACAGGGAC CTCGACAGAG	CTGTGCCTGC 420
TCAACGCTCG	AG		432
(2) INFORMA	TION FOR SEQ ID NO:771:		
(3.1.3	SEQUENCE CHARACTERISTICS:		
\-/ \	(A) LENGTH: 399 base p		•
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: doub		
	(D) TOPOLOGY: linear		
	(5, 10112011 111001		
(ii)	MOLECULE TYPE: cDNA		
, ,,			
(xi)	SEQUENCE DESCRIPTION: SE	EQ ID NO:771:	
GGTGTGGCTT	TGCCCCGTAC GAGCGGCGCG CC	ATGGAGTT ACTGAAGGTC	TCCAAGGACA 60
	CAAATTTATC AAGAAAAGGG TGG		
GGGAGGAGCT	GAGCAACGTA CTGGCCGCCA TG	AGGAAAGC TGCTGCCAAG	AAAGACTGAG 180
CCCCTCCCCT	GCCCTCTCCC TGAAATAAAG AA	CAGCTTGA CAGAAGCCCT	GGCTCTCCTG 240
CTGTCCGTGG	GTGGGTGTGG GTGTGTCGGG GG	CCCGCAGT CCCCTGTCTG	GTGCCCGCTC 300
TGAGCCACAC	CCTCTCCGGG TGCTGCCTGG TC	GTGAATCA AAAGCCGTGG	CCCGCCCACC 360
	CAGCAGGTGA GGAAGCCGCT GT		399
(2) INFORMA	TION FOR SEQ ID NO:772:	•	
(i)	SEQUENCE CHARACTERISTICS:		
(1)	(A) LENGTH: 520 base p		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: doub		
	(D) TOPOLOGY: linear	, ,TG	
	(P) IOFOLOGI: IIHEAT		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

(ii) MOLECULE TYPE: cDNA

AGTTGAATCT AAACCGGATA AACCATCGGG AAAGTCAGGC ATGGATGCTG CTTTGGATGA CTTAATAGAT ACTTTAGGAG GACCTGAAGA AACTGAAGAA GAAAATACAA CGTATACTGG ACCAGAAGTT TCAGATCCAA TGAGTTCCAC CTACATAGAG GAATTGGGTA AAAGAGAAGT CACAATTCCT CCAAAATATA GGGAACTATT GGCTAAAAAG GAAGGGATCA CAGGGCCTCC TGCAGACCCAT TAGGGCCAGA TGATGCTATA GACGCCTTGT CATCTGACTT CACCTGTGGG TCGCCTACAG CTGCTGGAAA GAAAACTGAA AAAGAGGAAT CTACAGAAGT TTTAAAAAGCT CAGTCAGCAG GGACAGTCAG AAGTGGTGCT CCACCCCAAG AGAAGAAAAG AAAGGTGGAG AAGGATACAA TGAGTGATCA AGCACTCGAG	120 180 240 300 360 420 480 520
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 129 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:	
·	
GAATTCGGCC AAAGAGGCCT AGTTTATTGT TTGCATATAT TTTATAGTGT AGAGATTAGG CATTTTAATA AAATTTTAAA ATTTCCAGGA TCTTACAGAA TGCTTTTATG TTACAGCTTA CTCCTCGAG	60 120 129
(2) INFORMATION FOR SEQ ID NO:774:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 337 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:	
GAATTCGGCC TTCATGGCCT ACACAACGGA AAGCTGTTTT TCTGATCGAG GCTCTCTGAA GAGCATAATG CAGTCCAACA CATTAACCAA AGATGAGGAT GTGCAGCGGG ACCTGGAGCA CAGCCTGCAG ATGGAAGCTT ACGAGAGGAG GATTCGGAGG CTGGAACAGG AGAAGCTGGA GCTGAGCAGG AAGCTGCAAG AGTCCACCCA GACCGTGCAG TCCCTCCACG GCTCATCTCG GGCCCTCAGC AATTCAAACC GAGATAAAGA AATCAAAAAG CTAAATGAAG AAATCGAACG CTTGAAGAAT AAAATAGCAG ATTCAAACAG GCTCGAG	60 120 180 240 300 337
(2) INFORMATION FOR SEQ ID NO:775:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 276 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:775:	•
GAATTCGGCC AAAGAGGCCT AGTGAGCGCG ACCATCATGT CCATGCTCGT GGTCTTTCTC TTGCTGTGGG GTGTCACCTG GGGCCCAGTG ACAGAAGCAG CCATATTTTA TGAGACGCAG CCCAGCCTGT GGGCAGAGTC CGAATCACG CTGAAACCCT TGGCCAATGT GACGCTAACG	60 120 180

TGCCAGGCCC	GCCTGGAGAC TCCAGACTTC CAGCTGTTCA AGAATGGGGT GGCCCAGGAG TTGACTCACC TGCCATCAAG CACCAG	24 27
(2) INFORM	NATION FOR SEQ ID NO:776:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 586 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	) MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:776:	
	•	
CAGTTCAGAG	AAAGAGGCCT ATGAAATAGA AGAAGGTAAA AATAAGGAAC AAGCAATAAA AACATAATGG ACATCAATGA GGAACCAGGA ACAACTGAAG GTGAAGAAAT AGTAGCACTG AAGAAATGGA GGTCAGAAGT GTGGTGGCTG ATACTGACCA	60 120
AAAGGCTTTA	GGAAGTGAAG TTCAGGATGC TTCTAAAGTC ACTACTCAGA TAGATAAAGA	180
GAAAAAAGAA	ATTCCAGTGT CAATTAAAAA AGAGCCTGAA GTTACTGTAG TTTCACAGCC	240 300
CACTGAACCT	CAGCCTGTTC TAATACCCAG TATTAATATC AACTCTGACA GTGGAGAAAA	360
TAAAGAAGAA	ATAGGTTCTT TATCAAAAAC TGAAACTATT CTGCCACCAG AATCTGAGAA	420
TCCAAAGGAA	AATGATAATG ATTCAGGCAC TGGTTCCACT GCTGATACTA GCAGTATTGA	480
CTTGAATTTA	TCCATCTCTA GCTTTCTAAG TAAAACTAAA GACAGTGGAT CGATATCTTT	540
ACAAGAAACA	AGAAGACAAA AGAAAACATT GAAGAAAACA CTCGAG	586
(2) INFORMA	ATION FOR SEQ ID NO:777:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 463 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:777:	
GAATTCGGCC	TTCATGGCCT AGTTTATATA GAGTAGGTTT ACATAGAAAA GGAAAGTTCA	60
CTGAGATTTC	TAGGTACAAG ATCTANCAAC ATGCACAAAC CAATATTGTT TATGTATAAC	120
AGCTTCAAAC	AATTAGAAAT TGTAATAACC ATTATGAAAG TGATGAAAAT TGTATTGCTT	180
AGTATTCTAC	CAAAATTATT AAGTAATTTT TTTTTTTTTT TTTNANACGG AGTCCCGCCT	240
ACTICIDED A TO	NGCNAAAATT TGTTTCNAAA AAAAAAAAGA AAAGAAAGAA AAAAAATTGA	300
CCACAACTC	CCTAGATGTA AAATCAACCT CGTGTTCTTG ATTTCACCAG TAATTCATAA	360
	TGTGTCTTGA ACACTTACTA TGCTTGGCAT ACTTATAATT TTTATTTCAC AATTTAAGAT GAAGTTTCTC CTACTAACTC GAG	420
- AMICCICA	ARTITAGAT GAAGITICIC CTACTAACTC GAG	463
(2) INFORMA	ATION FOR SEQ ID NO:778:	

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 466 base pairs

  - (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

GAATTCGGCC	TTCATGGCCT	AGCTGGGAGT	TACCTGNTAT	CCTGATGGTG	CCATGTGCTA	60
	AATAACCCAG					120
	TTGTCTACTT					180
TACAATAGCC	TAAATAAATT	CAAGGAAACA	CTATTATCTT	ACTGGATCTT	TCCAGCAACC	240
	TGGCTGGATT					300
	TAAATGGTTT					360
	AATGAATGTT					420
	TTCTTATATA					466

- (2) INFORMATION FOR SEQ ID NO:779:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 519 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

GAATTCGGCC	TTCATGGCCT	AATTCCACAG	GGAAATGGGC	AGACTGAACC	AGTCCAGGTG	60
		GTTTAAGTTG				120
ACTTCTAGCT	GTATTTTTTG	TATGCTTAAA	TAAAAATAAA	AATTCATAAC	CAAAGAGAAT	180
CCCACATTAG	CTTGTTAGTA	ATGCTCTGAC	CAAGCCGAGA	TGCCCATTCT	CTTAGTGATG	240
GCGGCGTTAG	GGTTTGAGAG	AAGGGAATTT	GGCTCAACTT	CAGTTGAGAG	GGTGCAGTCC	300
AGACAGCTTG	ACTGCTTTTA	AATGACCAAA	GATGACCTGT	GGTAAGCAAC	CTGGGCATCT	360
TAGGAAGCAG	TCCCTGGAGA	AGGCATGTTC	CCAGAAAGGT	CTCTGGAGGG	ACAAACTCAC	420
TCAGTAAAAC	ATAATGTATC	ATGAAGAAAA	CTGATTCTCT	ATGACATGAA	ATGAAAATTT	480
TAATGCATTG	TTATAATTAC	TAATGTACGC	AGACTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:780:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 321 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

GAATTCGGCC TTCATGGCCT	ACTAGACCCC	CGCCACAGCA	GCCTCTGAAG	TTGGACAGCA	60
AAACCATTGC TTCACTACCC	ATCGGTGTCC	ATTTATAGAA	TAATGTGGGA	AGAAACAAAC	120
CCGTTTTATG ATTTACTCAT	TATCGCCTTT	TGACAGCTGT	GCTGTAACAC	AAGTAGATGC	180
CTGAACTTGA ATTAATCCAC	ACATCAGTAA	TGTATTCTAT	CTCTCTTTAC	ATTTTGGTCT	240
CTATACTACA TTATTAATGG	GTTTTGTGTA	CTGTAAAGAA	TTTAGCTGTA	TCAAACTAGT	300
GCATGAATAG ATTCTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:781:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 560 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

GAATTCGGCC	TTCATGGCCT	AAATGGGAAT	CATCATTGCA	TAACAAACCT	AAAGAGAAAA	60
TGAGAACATT	TACGAAGAAG	AAACAGAGTT	ACTGTACCAA	GGGCAAAAAG	AAAAGAAGGG	120
GGAAAAAAAA	TAAGTCCATA	AAAGAAAAAC	AAAAGGAATC	CATGAGCCTG	GACGACAAGC	180
CGTGGGGGAT	GTAAGAAGGT	TTGGAACCCA	AAAGGCAAGT	CTAATCAGCT	GGGGTAACAT	240
GGCGAGGCAG	TTCCACATGC	TGAGACTTGT	GGCTACCACA	TTAAAAAAGA	CTGTGCATAT	300
TCTAAATGAC	AGCAGTCCTG	CAGTGACGTG	${\tt GATATTCACT}$	CTAGAAGCTA	TGCAGGCAGG	360
CGTGGGAAAA	GCGAAGAGAT	GTTGCACCAT	GCAGCTGCAA	TCTTTATGTC	TCTACTGGCA	420
CAACCGAAAA	GAGTAATGTG	GAAATTATCC	AGAGAATTTA	GGTGAGAAAA	ACAGAAGCCA	480
		CTTCAGAGGG	GTATACACTC	CCCTGGAAAA	CCAAGTTGCC	540
TCTCTGCTCA	CATCCTCGAG					560

## (2) INFORMATION FOR SEQ ID NO:782:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 633 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

GAATTCGGCC T	TTCATGGCCT	AGGGGAGTCC	TCATTCTGAC	CTCAAAGAAA	GGACTGTATT	60
GTCTGGCTCC A	TAATGCAGG	GGACACCAAG	AGCAACAACT	GAAAGCTTTG	AAGATGGCCT	120
TAAATATCCC A						180
TACCAAAGGA A	AACCATATG	ATGGCATCAC	CACCATCAAA	GAAATGGGGC	GTTCCATTCA	240
TGAGATTCCA A	AGGCAAGATA	TTTTAACTCA	GGAAAGTCGG	AAAACTCCAG	AAGTGGTCCA	300
GAGCACACGG C						360
CAACTCAGGT C						420
ACTATCCCGT G	GAATGCCTC	CGCTGGAAAT	TGTGCCAGAG	AACATAAAAG	TGGTAGAACG	480
GGGAAAATAT G	SAGGATGTGA	AAGCAGGCGA	GACCGTGCGT	TCCCGGCACA	CGTCAGTGGT	540
AAGCTCTGGC C	CCTCCGTTC	TTAGGTCCAC	ACTGCATGAA	GCTCCCAAAG	CACAACTGAG	600
CCCTGGGATT T	ATGATGACA	CCAGTGTCTC	GAG			633

- (2) INFORMATION FOR SEQ ID NO:783:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 407 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

AAATGACACT GAATGACACO	TTAGCCAAAA	CTAACAGAGA	ATTATTAGAT	GTGAAGAAAA	60
AATTTGAAGA TATAAATCAG					120
GAAACCTGGA AAACACTCAG	AACCAAATAA	AAGCTGAGTA	CATCAGCCTG	GCAGAGCACG	180
AGGCAAAGAT GAGCTCGCTA	AGTCAGAGCA	TGAGAAAGGT	GCAGGATAGT	AATGCTGAAA	240
TCTTGGCCAA CTACAGAAAA	GGCCAAGAAG	AGATTGTGAC	ACTGCATGCC	GAAATTAAAG	300
CCCAGAAGAA GGAGCTCGAC	ACAATACAAG	AATGCATTAA	GGTAAAATAT	GCCCCAATTG	360
TCAGCTTTGA GGAGTGCGAG	AGAAAATTTA	AAGCAACAGA	GCTCGAG		407

(2) INFORMATION FOR SEQ ID NO:784:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 342 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:784:

GCAGAAAAGT	CAGAACAATT	TGAGGAGCTT	CAAAGCATCC	TTAAGAAAGG	GAAACTAACT	60
TTTGAGAATA	TTATGGAAAA	ACTGCGAATC	AAGTATTCCG	AAATGTACAC	CATAGTCCCT	120
GCAGAGATTG	AATCCCAGGT	GGAAGAATGC	AGAAAAGCTT	TAGAAGACAT	AGATGAGAAG	180
ATTAGCAATG	AAGTCTTAAA	AAGCTCACCA	TCATATGCAA	TGAGGAGAAA	AATAGAAGAA	240
ATTAACAATG	${\tt GGCTTCATAA}$	TGTTGAAAAG	ATGTTGCAGC	AGAAAAGÇAA	AAATATTGAG	300
AAAGCTCAAG	AAATTCAAAA	GAAAATGTGG	GACTCACTCG	AG		342

- (2) INFORMATION FOR SEQ ID NO:785:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 456 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:

GAGATAATGG	ATGAAAGGAT	TCAGAGGAAA	GTAGAGAAAC	TAGAGCAACA	ATGTCAGAAA	60
GAAGCCAAGG	AATTTGCCAA	GAAGGTACAA	GAGCTGCAGA	AAAGCAATCA	GGTTGCCTTC	120
CAACATTTCC	AAGAACTAGA	TGAGCACATT	AGCTATGTAG	CAACTAAAGT	CTGTCACCTT	180
GGAGACCAGT	TAGAGGGGGT	AAACACACCC	AGACAACGGG	CAGTGGAGGC	TCAGAAATTG	240
ATGAAATACT	TTAATGAGTT	TCTAGATGGA	GAATTGAAAT	CTGATGTTTT	AACAAATTCT	300
GAAAAGATAA	AGGAAGCAGC	AGACATCATT	CAGAAGTTGC	ACCTAATTGC	CCAAGAGTTA	360
CCTTTTGATA	GATTTTCAGA	AGTTAAATCC	AAAATTGCAA	GTAAATACCA	TGATTTAGAA	420
TGCCAGCNGA	TTCAGGAGTA	TACCAGTGCT	CTCGAG			456

- (2) INFORMATION FOR SEQ ID NO:786:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 488 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:786:

GAATTCGGCC TTC	ATGGCCT AGGGGTGAG	A GTGTAGACGG	CTTTCCCAGT	TGTATCCAAG	60
GCAGTCAGAC AGGC	GGGATTT GGGCTGTGT	r grgccccagc	GCTGCAAGGT	GGCCAACAGC	120
GACGGCGGTC GGGC	GGACACC TGCAGTGAG	A GGCTCCCCTC	TCAGCACACT	CGTCTCGCTT	180
CCCTCAGGCT TTGC	GCTGATT TGGATCTGG	r tgctgaactt	CCAACAATTC	CTCAAAATCA	240
TCCACAAAGA ACTO	CCTTCAG TGGAGGGCG	C TTTGGCCTCT	TCAGGGTGTT	CAGAAGCTGC	300
TGGATTTTGG AGG	ACACTCT GCTGTTCAC	A GGGACACCAT	CTGCTGTTTC	CAGCATGCTC	360
CCGCTGCACC CCCC	GAGGAAC ACTTCTCAC	A GAAGCCACCT	GTGGACGCTC	AAAGTACGAA	420
TGCTCCACGA GGC	CCGTGGT GACATCAGG	A GGGGCAGAAT	GCAGATCTAT	GTGGGTGTGG	480
GCCTCGAG					488

- (2) INFORMATION FOR SEQ ID NO:787:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 452 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

GAATTCGCCT	TCATGGCCTA	AGTGTCCGGA	ACATATGTCA	TGATTCTATG	TCCAAACAAC	60
AGGCCAACCC	TCAGGACAGA	CCCCGCCACC	CCCCTTCTCT	GCAGCTCCTG	GCAGGGACGG	120
TGCACAGTGG	TGCCGTGTGC	AGGGGGCCAG	CGCAGCCACT	GGGCATCTGG	GGCAGCGCTG	180
GTCGCCTGGC	CACCTCCTTG	CTGGGGCCGC	TGGGCCTCCG	GCCTAGAAGG	ACAGGAAGCC	240
ATCCACCTCA	AGGCGCAGGA	AGGGGTCCAG	CAGGGCCCGG	AGCTTCCAGA	TGGTGGCACG	300
GCTCAGCAGG						360
GACCAGCAGG	GTGCCCAGCA	GCAGCCTCAG	GATCAGCAGC	CTGAGAATCT	CCAGCTGGAT	420
GTCCTCCATC						452

- (2) INFORMATION FOR SEQ ID NO:788:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 388 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

GAATTCGGCC TTCATG	GCCT ACAGGACAGA	GGCAAATAGT	AGACAAAGGT	GAAGCCAAAG	60
GCATAATTAA GGAAGG					120
CTGTGTCAAA TTCTCA	AATT GAAACTGAAA	TTGAAGTTCC	ATCGTCCGCA	GTTCCAGAAC	180
ACAGAATGTA TGAAAA	TCAA AGTCAGGTGG	TTCTTGTAGA	AAACCTTCAT	GTTAACAAAA	240
CAAATGAAAC AATCAG					300
GAAGGAAATT CCAAAA	GGCT AAGCCAAATT	TGGGAAGAGC	ACACAGTAAG	AAAGAGGAAC	360
CAGTTTTAGA AAAAGT	CACA AACTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:789:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 457 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

GCCTGAAGAC	ATCAAAAAGG	AGGCAGCCCG	GGCTTCTAGG	AAGATCTGCT	TTGTGTGCAA	60
GAAAAAGGGA	GCTGCTATCA	ACTGCCAGAA	GGATCAGTGC	CTCAGAAACT	TCCATCTGCC	120
TTGTGGCCAA						180
CAAACATCGC	CCAACACAGA	ACATCCAACA	TGGGCATGTG	GGGGAGGAAA	GCTGCATCTT	240
ATGTTGTGAA						300
AGCCATCTAC	CACCGCAAGT	GCATACAGAA	ATATGCCCAC	ACATCAGCAA	AGCATTTCTT	360

CAAATGTCCA	CAGTGTAACA	ATCGAAAAGA	GTTTCCTCAA	GAAATGCTGA	GAATGGGAAT	420
TCATATTCCA	GACAGAGATG	CTGCCTGGGA	ACTCGAG			457

- (2) INFORMATION FOR SEQ ID NO:790:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 582 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:790:

TACAGTTTTC GCCACCATGA GTCGCAGCTA TAATGATGAG CTGCAGTTCT TGGAGAAGAT	120
CAATAAAAAC TGCTGGAGGA TCAAGAAGGG CTTCGTGCCC AACATGCAGG TTGAAGGTGT	180
TTTCTATGTG AATGATGCTC TGGAGAAATT GATGTTTGAG GAATTAAGGA ATGCCTGTCG	240
AGGTGGTGGT GTTGGTGGCT TCCTGCCAGC CATGAAACAG ATTGGCAATG TGGCAGCCCT	300
GCCTGGAATT GTTCATCGAT CTATTGGGCT TCCTGATGTC CATTCAGGAT ATGGGTTTGC	360
TATTGGGAAC ATGGCAGCCT TTGATATGAA TGACCCTGAA GCAGTAGTAT CCCCAGGTGG	420
TGTCGGGTTT GACATCAACT GTGGTGTCCG CTTGCTAAGA ACCAATTTAG ATGAAAGTGA	48Q
TGTCCAGCCT GTGAAGGAGC AACTTGCCCA AGCTATGTTT GACCACATTC CTGTTGGGGT	540
GGGGTCAAAA GGTGTCATCC CAATGAATGA CAAAGACTCG AG	582

- (2) INFORMATION FOR SEQ ID NO:791:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 468 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:791:

GAATTCGGCC	TTCATGGCCT	ACATTTTCTG	AGAAAGGTTT	GGATGACTGA	AATATTTCCT	60
CTACAGTCAA	GGACTTTGGC	ATGTGGTGGC	TGAAACTGAG	CTTTTTTGTG	TGGGCTCCAG	120
TTCTCACTGT	TCTGCAATGC	TCATGGCAAG	TTGAATGGTG	AGCTAGCTTA	TAAATTAAAG	180
AGCTCTGAAC	TGTATTCAGA	CCGACTGGGT	ATCTAGCTTA	CTGTTTTAAC	ATCATTGTTG	240
AAACCAGACC	CTGTAGTCCA	GTGGTGCTGC	CCTGTTGTGC	AAACTGCTCC	TTTTTCTCGT	300
GTTTTTGTAA	AGAGCTTCCA	TCTGGGCTGG	ACCCAGTTCT	TGCACATACA	AGACACCGCT	360
GCAGTCAGCT	AGGACCTTTC	CGCCATGTAT	TCTATTCTGT	AGTAAAGCAT	TTCCATCAAC	420
AATGCCTAAT	TGTATCTGTT	ATTTTTGGTT	TAACACACAC	TGCTCGAG		468

- (2) INFORMATION FOR SEQ ID NO:792:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 519 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

GAATTCGGCC	TTCATGGCCT	ACGTGGCTAT	AACTGGAAAA	CTGGATCCGA	AATCGACCAG	60
TAAACTGGGT	AGCTCGGTCT	ACGCCCCGCC	CACCACCCTT	GCTAGCCAAT	AGCCTTCACA	120
ACTCTTCTGC	CACTCCCGCC	CATTCCAGTG	CTGTGCCGCT	GCTTTTTCTT	CCACTCGGAT	180
CTCTTGAGCG	CCCTTAGCCC·	GCTGTATACG	CGCCCCTCCT	CGGCTTCAGT	AGGCAAGAGG	240
GCCATCTGCC	CTTCCTTCCT	GAAGGTAGAG	GGGACAACAC	CAGCTACGAC	GGGGACTCCA	300
GAAGTCCATC	TCCCGAACAG	CAGCGGGGCG	AAAAGAAAGA	AAAAGGGTTT	CCGAAGACTC	360
CTACTCACAC	CCACGCTTTC	CCTTAACCCG	GAAGTGATTT	CCGCCCCTCC	TCTCCCTCTT	420
CGGTTGATAC	TGGAGGAGAA	GGACGGCCAG	GTCTGGCCCG	GCATGCCCTG	GGCTTCCGGT	480
GACCTCTGGC	CCTTTTCTGT	CGTCCACTCT	CCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:793:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 338 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

GAATTCGGCC	AAAGAGGCCT	ACAGAAACAT	CCAATTCTCA	AACTGAAGCT	CGCACTCTCG	60
CCTCCAGCAT	GAAAGTCTCT	GCCGCCCTTC	TGTGCCTGCT	GCTCATAGCA	GCCACCTTCA	120
TTCCCCAAGG	GCTCGCTCAG	CCAGATGCAA	TCAATGCCCC	AGTCACCTGC	TGCTATAACT	180
TCACCAATAG	GAAGATCTCA	GTGCAGAGGC	TCGCGAGCTA	TAGAAGAATC	ACCAGCAGCA	240
AGTGTCCCAA	AGAAGCTGTG	ATCTTCAAGA	CCATTGTGGC	CAAGGAGATC	TGTGCTGACC	300
CCAAGCAGAA	GTGGGTTCAG	GATTCCATGA	ACCTCGAG			338

- (2) INFORMATION FOR SEQ ID NO:794:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 756 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear .
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

GAATTCGGCC	AAAGAGGCCT	ACCAGGATGG	TCTCAATCTC	CTGACCTCAT	GATCTGCCTG	60
CCTCGGCCTC	CCAAAGTGCT	GGGATTACAG	GCGTGAGCCA	CCGCACCCGG	CCCTAAACCC	120
TAGGTTTTGA	CTTCTGTAAG	AAGGAAAGAT	TTAAACAAAC	AAACAAACAT	TAAATTACAA	180
CCATAATAAA	CAAAAAAACA	CTAAACTAAA	TTACAACCAT	AATAAAATCT	CCCAAAGTCC	240
GTAGGCACTG	ACATATTACA	GCCTTGCCAA	ATCAGAATAG	ATTTÇTCATG	TGTTGTCAAT	300
TTACCAGACA	CAAAGAGTAG	CTCAGATCTC	ATAGACTCTT	CAGATCTTGT	AGACTAATTT	360
CAAGTCTTTT	TAAAGTTTTG	AAAAACATGT	GCTATTTGGA	ATTACGTCAT	CCTCGAATAT	420
TAAACCTGAG	CTCAAAAACC	TATTGTTTGA	TATTGGAAAT	AGTTAACTCC	AGTTTTCTTC	480
TATTAAGATA	AAATTCTTTC	ATCATGTCTG	TGCCCTCTAA	AATAATACTC	CTATTGCTTT	540
GTCTTCCCCT	TCTCCCCTCC	TAGTCCTTCT	TTAGTCATTC	TATTTAGAAT	CAAGTCGCTC	600
ATGAGTTTAA	GAATTAGAGC	AGCAAGAAAT	TGGGCTAGAG	ATGTACAAAA	GCTTTGGACA	660
ATAGTAGTTT	TGCTTGTCCT	CATTCTTATT	AGAAGTGCTG	TTAATTTACT	GATAAATTCT	720
AGGACGGAAG	ACAAATCTTT	GCAACTGGTA	CTCGAG			756

- (2) INFORMATION FOR SEQ ID NO:795:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 648 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (11) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:

GAATTCGGCC	AAAGAGGCCT	ACCAGGAAGC	TCTCCTGCTT	GTCATGAAGT	GAGAACAATG	60
AAAAGTCATA	GCAGATACTC	AGTTTAACTC	TGTGTAGAAC	CTATTAGTGT	TTGAGCTGTT	120
ATTCAGATTT	GAATTCAGAC	TGTGTGTTGT	TTGCTTATGG	ACACTGCCTG	TCGTTCTGTC	180
ACTGTTAAAT	TAATGAGTCT	ATAAGGTTTT	TCTTCCAGAG	GCCATAGGTG	ACATCACTAA	240
AATTGCAAGA	TAAATTGTAA	TCTTTGNTGN	TGCTGCACTC	CCCAACCTCT	CCCCCACCCC	300
CCGTGGTGTG	CTGCTTTCTA	GATGAGCGTG	TTTTGGAGCA	GGCCCATCTG	GGACACTCTA	360
TGCTTTCACC	AAGGAAGTGC	GATCTGAGCA	GCCACAATCC	AGCCAAAAGA	GGATCGTAGA	420
TATTTGCTCT	GATCAACTAG	ATGAAAATAT	AGCAGAATGG	ATTTAGCCCA	CTGCTCTGTT	480
TTATCCAACT	GAGTCTCTGA	CCAGCAATTG	GTGCATAATT	ATTACAGCAA	AAGTTAAGAA	540
				TTAATACCTG	TTACTAGTGG	600
ACTTCCTGTG	AGGAAGTTAG	TTTTTTGTTT	TGATGAAATG	CTCTCGAG		648

- (2) INFORMATION FOR SEQ ID NO:796:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 610 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

GAATTCGGCC	AAAGAGGCCT	AAGAGGCTGG	CCCCAGTCCC	AAGGAACAAG	AGATGGTCAA	60
GTCGCTAGAG	ACATATCAGG	GGACATTAGG	ATTGGGGAAG	ACACTTGACT	GCTAGAATCA	120
GAGGTTGGAC	ACTATACATA	AGAACAGGCT	CACATGGGAG	GCTGGAGGTG	GGTACCCAGC	180
			ACCTAGAGTC			240
			CCCCTCCTAC			300
			GGACTGGCGC			360
ATTTTGGTAT	CTTCTCTGGC	CTCTCCAGTC	CTGCTTACTC	CTCTATTTTT	AAAGTGCCAA	420
			GTAATGTGGC			480
TCAGTGAAGG	GGGCCTGCTT	GCTCTTTATT	TTGGTCCCGG	ATCCTGGGGT	GGGGCAGAAA	540
TATTTTCTGG	GCTGGGGTAG	GAGGAAGGTT	GTTGCAGCCA	TCTACTGCTG	CTGTACCCTA	600
GAAGCTCGAG						610

- (2) INFORMATION FOR SEQ ID NO:797:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
      - (B) TYPE: nucleic acid
      - (C) STRANDEDNESS: double
      - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

GAATTCGGCC	AAAGAGGCCT	AGCCACTATC	CTGGTTACTT	GTGGATTCAC	CAAGCAGTCC	60
AGCAAGTCAT	CCGTAGAAAT	GAATGTTTGA	GGAGTCGTAG	TAGTATTTGA	GGCAATCTGT	120
TCCTCAATTG						180
CCAAAGTGTT	CTCCATCCTT	GTCCACAAAG	TCTTTCCCAT	CACTTCCAAA	TATGCCTCCT	240

CTTTCTGAAG GCGGTTCTTC GGACCTCTGT GCTACAGGGA CTCGAG

(2) INFORMAT	ION FOR SEQ ID NO:798:	
(i) Si	EQUENCE CHARACTERISTICS:  (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) N	MOLECULE TYPE: cDNA	
(xi) 8	SEQUENCE DESCRIPTION: SEQ ID NO:798:	
GTTCTCAAAG G	AAGAGGCCT AGTTTTTTAT TGGTTTGGAG ACTAGAGCCA ATAGTATAAT AAACAGACT TGAGTTGTTG GATTAGAGGA ACTAACCCAA CTTATATGAT TTTTGTCGT GTAGTTATGG CACTAGTCTC GAG	60 120 163
(2) INFORMAT	ION FOR SEQ ID NO:799:	
(i) SE	EQUENCE CHARACTERISTICS:  (A) LENGTH: 443 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) M	MOLECULE TYPE: cDNA	
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:799:	
TAGGGCAGCA GTAAAGAGGTT TAACAGAGTAGA TCAGGGACCCA TTGCATAGCCA TAGCCTCTTTT CA	PCATGGCCT AGAGGGAATG CGGAGAGGGG TGGAGAAATT CCATCTTTGT PAGAGGGT AGAGGGTAA GCTGTTAGAA ACAACATCA GCGGCTTAAA TCAAATAGAA GTGTGTTTCT CTTTCACATG CATCTTCTCTT GTCTTCATGC TCCATCACTT CCTAGGGTGT TGTCTACACC AGCTAATTT TCCATTCTCA GCACCAACCA GGGGAAGAGG AGGAAAGGTA ATGAATAGGT GTGAAGTTAT GCAGGACACT CTCAGGGTGA ATGGACCACA CCTGGGCTC GAG	60 120 180 240 300 360 420 443
(2) INFORMATI	ION FOR SEQ ID NO:800:	
(i) SE	QUENCE CHARACTERISTICS:  (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) M	OLECULE TYPE: cDNA	
(xi) S	EQUENCE DESCRIPTION: SEQ ID NO:800:	
ACACTCTGGA GT AGGAGCCTGG TC CTCCCAGCAC GC CCAGCAATGG TC TCGAG	GECANAGAG AACCCGGACA GTGATGCTGA CTTGGATGTG GATGGGGATG PATGGGAAG CCACAATACA CAGAGGCTGA TGTCATCCCC TGCACAGGCG GAAGCCAAG GAGAGAGAGG CACTTCGGGG CGCAGTCCTA AATGGCGGCC CGCATCACA CCTGAGTTCT CTAAATGGCC CAGTGATGAG ATGCCATCCA GAAAGCAGC AAGCAGGAGG CCATGCAGAA GACCTGCAAG AACGGTCGAC CON FOR SEQ ID NO:801:	60 120 180 240 300 305

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:801:

GAATTCGGCC	AAAGAGGCCT	AAACACTCAA	ATTTTACATT	TTGAGCAGTA	TTTACGCCTG	60
AATTAATTCA	CAAGTTTCAA	GGTCACTAAC	TTTGGTTATA	TTATATTATT	ATTTTCCAAT	120
TTAGCCACCT	CTTTATTTGT	ATAATAGAGC	ATACAGCAGC	ACATAAAACG	CAAAACTCTA	180
GGACATAAAA	AGTGGCATTC	GGACGATGTT	GCTCTGAAAT	TTATGCATTA	ATTAAACCGG	240
TATATATGTA	TGCATTAATT	AAACCAATAT	TTATGAAGTT	CCTACTGTGT	TACAGACGTG	300
GATCCAGGCA	CTGAGGATGC	AGCAGGCCAT	CCAAATATAA	AGTTACTTCC	TTAGGAAGCT	360
TCCATTCTAA	TGGGAGAGTG	TTGTTAAAGA	GATATATAAT	AATATGTAAA	ATGAATCCAT	420
AATGGTGAGT	ATTATGAAGA	ATAAAATTGC	CAGGTTTTCT	CGAG		464

- (2) INFORMATION FOR SEQ ID NO:802:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 650 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:802:

GAATTCGGCC	AAAGAGGCCT	AATCTTCTGC	CTGTTCTGAA	AAAGCTTTGC	TTCTTGTGAT	60
TTGTATCACG	AGGGGGAAAG	GTCCTTACTG	TTTTTCCAGA	CCTACAGTTG	TGATAGAGGC	120
TCCTCCCAGC	CCCGCCCACA	GACCCCAACA	GTGCCCTCTC	TCACAAATGG	ATTCTGGGGC	180
TTGGTCTTTA	TTTTTGTTTT	TGTTGGGGGC	AGCATATGGA	ACCCAAAAAT	AGTATCATAG	240
CCTAAATTTG	GAGCTTTGTG	CCAGCCTTGT	CTGTAGGATG	ACCCGTGTGG	GTCTCACCTG	300
GTGACTGGGA	GTCCACAGGG	GTCAGTTAGT	AGCAGGGAGC	TGCAGGGCGC	CTGTCAGCAG	360
AGACCGTCTC	ATTCCCCAAA	CCCAGGAGCC	AGAGGAACTG	ACGCCCGGAT	AAATGCCCAA	420
GCCGCCCCGG	GTGGGATTAG	TCGTCTACCT	TCCCAGAAAT	ACACCCTCCC	ATCCTGTGAC	480
TTGGATACAG	TTTACTGATG	AAATTAGGGA	ACCTCCTGCG	CCTTACCAAG	AAGCTGTGGC	540
TGGAACTTAG	TCAATGAAAA	ATGATTTGTA	AACTCTTTGG	AGCTGGCTTT	GAAAGAATGT	600
TTAAAATGAT	AGCTGATACT	GCCAGACAAC	AGAACAGGCC	GGCCCTCGAG		650

- (2) INFORMATION FOR SEQ ID NO:803:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 101 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:

GAATTCGGCC AAAGAGGCCT AAGAGAACAG GAGCATTACA GTAAAATTCC TAAGTAGCCA
ACTGATTTGC AGTGCCAGAA ATGAATACCG ATCCACTCGA G 101

(2) INFORMATION FOR SEQ ID NO:804:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 723 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

GAATTCGGCC	AAAGAGGCCT	AGCTCTCTGT	ACCCAAGGAA	AGTGCAGCTG	AGACTCAGAC	60
AAGATTACAA	TGAACCAACT	CAGCTTCCTG	CTGTTTCTCA	TAGCGACCAC	CAGAGGATGG	120
AGTACAGATG	AGGCTAATAC	TTACTTCAAG	GAATGGACCT	GTTCTTCGTC	TCCATCTCTG	180
CCCAGAAGCT	GCAAGGAAAT	CAAAGACGAA	TGTCCTAGTG	CATTTGATGG	CCTGTATTTT	240
CTCCGCACTG	AGAATGGTGT	TATCTACCAG	${\tt ACCTTCTGTG}$	ACATGACCTC	TGGGGGTGGC	300
GGCTGGACCC	TGGTGGCCAG	CGTGCATGAG	AATGACATGC	GTGGGAAGTG	CACGGTGGGC	360
GATCGCTGGT	CCAGTCAGCA	GGGCAGCAAA	GCAGACTACC	CAGAGGGGGA	CGGCAACTGG	420
GCCAACTACA	ACACCTTTGG	ATCTGCAGAG	GCGGCCACGA	GCGATGACTA	CAAGAACCCT	480
GGCTACTACG	ACATCCAGGC	CAAGGACCTG	GGCATCTGGC	ACGTGCCCAA	TAAGTCCCCC	540
ATGCAGCACT	GGAGAAACAG	CTCCCTGCTG	AGGTACCGCA	CGGACACTGG	CTTCCTCCAG	600
ACACTGGGAC	ATAATCTGTT	TGGCATCTAC	CAGAAATATC	CAGTGAAATA	TGGAGAAGGA	660
AAGTGTTGGA	CTGACAACGG	CCCGGTGATC	CCTGTGGTCT	ATGATTTTGG	CGACATCCTC	720
GAG						723

- (2) INFORMATION FOR SEQ ID NO:805:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 406 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

GAATTCGGCC	TTCATGGCCT	ACGGCCAAAG	AGGAGGAGAT	GGCGCCAGTC	AGGGAGCGGC	60
CGTGGCCCAG	ACAGTGAGGA	AGCGCGAAGG	CGGAGCAACC	GAGGAATCCT	CCGGAGAAGA	120
ATCAGAGCCG	TCGCTACCGC	CACTACCGCC	ACCACCATGG	AAGGAGCAAA	GCCGACATTG	180
CAGCTCGTGT	ACCAGGCAGT	GCAGGCGCTT	ACCACGACCC	AGATCCCAGC	GGAAAGGAGC	. 240
GCGCCTCTTT	TTGGCTTGGG	GAGCTGCAGC	GTTCGGTTCA	TGCATGGGAG	ATCTCAGACC	300
AGTTGTTACA	GATCCGGCAG	GATGTGGAGT	CATGCTATTT	TGCTGCACAG	ACCATGAAAA	360
TGAAGATTCA	GACCTCATTT	TATGAGCTCC	CCACAGTACT	CTCGAG		406

- (2) INFORMATION FOR SEQ ID NO:806:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 329 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

GAATTCGGCC	TTCATGGCCT	ACGCCCGGGT	TGGAAGTGTG	CAGTCAATGA	GCTCCCGCTC	60
CTCCTGGATC	CGTCTGTAGG	TCTCCCCGGT	GTGCATGAGC	AGCTCACTCA	CTGGCTTCTT	120
TAGGTGTTCG	CTGAGGGCTT	CCTGCTGCTT	CTTCCGCAGG	GCTGTGTTAC	GCTGCCAGTT	180

CCGCTCAGCC AGCTGGGTGT TCCCTCGAG	329
(2) INFORMATION FOR SEQ ID NO:807:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 225 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:	
GAATTCGGCC TTCATGGCCT AAGGTACTTT AATCAGTCTA AATACTTGAA CATTTTATT TCAGTGGTAA AAAATAGACT GAGGCAGAGT GAAGTTATAA ATTAGAATCT AAAAATTTAC CCTTCAACAT TAATATTTTT TAGTGCTCTA ATATAAAACA CAGAAAACCT ATCTCAAATA TAAAAGATGA ATATAAAATT ATTAATTAAA CAACTGGCGC TCGAG	60 120 180 225
(2) INFORMATION FOR SEQ ID NO:808:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 275 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:	
GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAGACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC CCCCACCAAC TCGAG	60 120 180 240 275
(2) INFORMATION FOR SEQ ID NO:809:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 253 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:809:	
GCGATTGAAT TCTAGTTGCC TACCTACCAA ACTACCTACT GAACTTTTA ATTTGAAGAT ATTCTTCCTG GACTACTTGT TTATAGTTTA TTAAATGAAC TGCTCTATTT CTAAAAACTT TATTTTTAAA GTCCTTTCCC GTTTAGAATG CGGCATACTC TTGCTTGTGG GGTATATATC TCTGATCGTG ATAACTACCT ACCGAAAACC TTTCATGGCT CCTTGCCAAC TACAAAATTG CGATATCCTC GAG  (2) INFORMATION FOR SEQ ID NO:810:	60 120 180 240 253

(A) LENGTH: 283 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:	
GAATTCGGCC TTCATGGCCT AGATTGAATT CTAGACCTGC CGACGCGGGG AGAGACAAAA	
AAGAGAAAGT CTTTGAAAAG CACAAGGAGA AGAAGGATAA AGAGTCCACA GAAAAGTACA	60 120
AGGACAGGAA GGACAGAGCC TCAGTGGACT CCACGCAAGA TAAGAAAAAT AAACAGAAGC	180
TCCCCGAGAA GGCTGAAAAG AAGCACGCTG CCGAAGACAA GGCTAAAAGC AAACACAAAG	240
AGAAGTCGGA CAAAGAACAT TCCAAGGAGA GGAAGTCCTC GAG	283
(2) INFORMATION FOR SEQ ID NO:811:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 316 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:	
(Mar) bargonion barbitariani barg ab 10,022,	
GAATTCGGCC AAAGAGGCCT AGGCTTCCAC CCAGGAAATG ATCCAGAGCC TCTTTTATGT	60
TATGTTTTTT GTTTGTTCCT TTCAAGACAA TCGATCAAGC CAGAGGCATT CCCCACCCTT	120
CAGCAAGACA CTTCCCAGTA AGCCCAGCTG GCCTTCAGAG AAAGCAAGGC TCACCTCCAC	180
CCTGCCGGCC CTGACTGCTT TGCAGAAACC TCAAGTCCCA CCCAAACCCA AAGGCCTCCT	240
TGAGGATGAG GCTGATTATG TGGTCCCCGT GGAAGATAAT GATGAAAACT ATATTCATCC CACAGAAAAG CTCGAG	300 316
CACAGAAAAG CICGAG	310
(2) INFORMATION FOR SEQ ID NO:812:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 256 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:	
<b>'</b>	
GGGATGCATA GATTTAGTTC TGCCTCACAG GCAGGTAGCC TGAGCTCCTA GGGGGAACTG	60
TTTTTGCTAA GTAGGGAATG AAAAGCATGT TTATTTAAGC ACAAAATTAA ATCTCTCCTA	120
TTTTTATATG ATTTCCCGTT GTTTTCTTCC CTGTAGGGAA ATCTGCTGTG ATAGAGAACT	180
GCGTAACAGG CCTTTTCTGT GAGCGCTCAC TCATACATTA TGCACGACGT GGCTAAGATC	240
TTTGATGGCA CTCGAG	256
(2) INFORMATION FOR SEQ ID NO:813:	
(i) GEOMENOR CUARACTERISC	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 317 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
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- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

GCAAGCGGCG CATGCAGGAG	GAGAAGCAGA	AGTCTGTCAA	CGTCAAGAAG	ACCATCCTGG	60
AGATGCGCTA CGGGGCTGAT	GTGGATGCCG	GCTCCATTGT	GCACGCCGCC	CAGAAGCTGG	120
GCGAGCCTCC CGTGCTGCCC	GTATCTCGCA	TGGCCTCCAT	CCCCTCCATG	ATCGGGGAGA	180
AGCTGCCCAC CGCCAAGGGG	TTGGAGGCCG	GGCTGGACAC	ACCCAAGGTA	GCCACCAAAG	240
GCAACTATAT CGAGGTGCGC	ACAGGCGCCG	GCGGGGACGG	TCTGGCTCGG	CCCGAGGATG	300
ACCTCCCGGA CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:814:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 370 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

GAATTCGGCC	TTCATGGCCT	ACGAACTCCT	GACCTCAAGT	GATCGGCCTG	CCTCAGCCTC	60
CTAAAGTGCT	GGGATAGCCA	CTGTGCCCAG	CCTAGCCCTT	CTTCAAATGT	TTGGTAAAAT	120
TCAGCATTGA	AGCCATCAGG	TCTTGGGCTT	TTTGCTGGGA	GATTTTTTAT	TATGGCATCA	180
ATCTCATTAC	TTGTTACTGG	CCTGTTTAGG	TTTTCAGTTT	TTTCATGGTT	CAATCTTGGT	240
AGGTTGTTTG	TGTCTAGGAA	TGTATCTGTT	TCTTCTAGGT	TTTCCAGTTT	CTTGGCGTAT	300
AGTTACTCAT	AGTAGCCACT	AATTATCCTT	TGGATTTCTG	CGGTATTGGT	TGTAGTGTCC	360
CCATCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:815:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 382 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCAAGCCTAT	CTTTTAGTCT	60
TCCTAGAAGC	ACCGTGTTCT	GTGGAACTCA	GCATCAGCAG	CTTTGCTGAG	GACTCCCCCA	120
TCTTCCTTTC	CTTCCCCGGA	AAGCACAGAC	CTAAGTGAGT	CTTCACTGGA	TCCCAGCTAA	180
CAGCTTCTGC	CCATTCCTAT	CTTTCCACAG	AGCCAGTGGC	AGCCCCAGCT	GCAGCAGCTA	240
CGTGACATGG	GCATCCAGGA	CGATGAGCTG	AGCCTGCGGG	CCCTGCAGGC	CACCGGTGGG	300
GACATCCAAG	CAGCCCTGGA	GCTCATCTTT	GCTGGAGGAG	CCCCATGAAC	TCCCTGCTTC	360
CCCTGAACCC	CCAGCACTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:816:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 274 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

GCCACGGTGC	TCATTCAGAC	TACCCGTGTG	CCCAAGCAGG	TGGCAGTACC	CGCGACAGAC	60
ACCACTGACA	AGATGCAGAC	CAGCCTGGAT	GAAGTCATGA	AGACCACCAA	GATCATCATT	120
GGCTGCTTTG	TGGCAGTGAC	TCTGCTAGCT	GCCGCCATGT	TGATTGTCTT	CTATAAACTT	180
CGTAAGCGGC	ACCAGCAGCG	GAGTACAGTC	ACAGCCGCCC	GGACTGTTGA	GATAATCCAG	240
GTGGACGAAG	ACATCCCAGC	TGCAACATCT	CGAG			274

- (2) INFORMATION FOR SEQ ID NO:817:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 356 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

GAATTCGGCC	TTCATGGCCT	ACAAAAATAC	ACCTGTGGTC	CCAGCTGCTC	GGGAGGCTGA	60
NTTACGAGAG	TCCCTTGAAC	CTGGGAGGCG	GAGGTTGCAG	TGAGCTGAAA	TCATGCCACT	120
GCACTCCAGC	CTGGGCAACA	GAGCGAGACT	CTGTTNAAAA	TAAAAAAAA	AGCGAGAGAT	180
CGAGAGAGAG	TGCACGTGAG	AAGACTAGTA	GTTGCTATGG	ACTGGGGGAG	AAGGAACGGG	240
TTACAGGGTT	TCTTTTGGGG	ATAACGAAAA	TGTTCTAAAA	CTGGACTGTG	GTGATAACTG	300
CACAACTCTG	TGAATGTACT	AAAAACTACT	GAACTGGCCG	GGCGCGGCAG	CTCGAG	356

- (2) INFORMATION FOR SEQ ID NO:818:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 184 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

GAATTCGGCC	TTCATGGCCT	AGGCAGGGTG	TCAACTTATT	TAATTCTAAA	AATAGTATAT	60
TCATAGAGAT	ACTATCATCC	TCATTTCATA	TATTCAAAAA	ATTCAAAGAA	GTTAAGTAAA	120
TTGCCAAAAG.	TCACCCAGAT	AATAAGTAGA	AAAGATGGTA	ATGAAATCCA	GGTTGGCCTT	180
CGAG						184

- (2) INFORMATION FOR SEQ ID NO:819:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 349 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

GAATTCGGCC TTCATGGCCT ACAACAACAA CAACAAAAAA ACATCATCCG GGGAAGCTTT	60
TCAATATCCT GACGTTGGGT CTCTCCAGTG TAGATGGAAA TATGGAATTG GGAATAGACA	120
TCGATATTTT TGGAGGTCCC CAGGGGTTAC CAATGTGCAG ACAGGTTTGG GAACCACTGC	180
ATTAGGCATT TTACATTTAT TTAGGGCTTT CACTGGATTT GTCACCCCAT ACTTTCATAA	240
TCCATTTTT CTGATTTTT TTCTGGTTTT TGGTGAGGGT ATAGTTGGGA TGGGGTTTTT	300
TTTTTTGTCC TCCCACCGCT CGCCCCCATC CAGTGTGGAC GTACTCGAG	349
	349
(2) INFORMATION FOR SEQ ID NO:820:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 167 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(II) MODECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:	
The state of the s	
GAATTCGGCC TTCATGGCCT ACTCTTTCCT TGAAGAATTT GTTGAAGACT TCAGAAGTGA	60
TGCTGGCTGC TTTCTTCATT AGGTTGAGCT CCCCATCCTC CTTTACAGCG ATGGTATATG	120
CCACAACTGC ACTGATATCT ATTTTGTCAA AGCCTTCAGG TCTCGAG	167
•	
(2) INFORMATION FOR SEQ ID NO:821:	
(i) COOLENGE CUNDAGED TORTO	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 733 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
, , , , , , , , , , , , , , , , , , , ,	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:	
TARTHOCOCO ANACACOCOT ACCOANAMAN ANGLACONA	
GAATTCGGCC AAAGAGGCCT AGCGAAATAA AACAAGGGAG TCAGCAAAAC CAGAAATTTC	60
AGCAATGTCA GCTCATGACA AGGCTGCATT ATCAGAAGAG GAACTGGAGA GGAAGTCGAA	120
ATCTATCATT GATGAATTTC TACACATTAA TGATTTTAAG GAAGCCATGC AGTGTGTGGA	180

GAATTCGGCC	AAAGAGGCCT	AGCGAAATAA	AACAAGGGAG	TCAGCAAAAC	CAGAAATTTC	60
AGCAATGTCA	GCTCATGACA	AGGCTGCATT	ATCAGAAGAG	GAACTGGAGA	GGAAGTCGAA	120
			TGATTTTAAG			180
AGAGCTGAAT	GCCCAGGGCC	TACTACATGT	TTTTGTGAGA	GTGGGAGTGG	AGTCCACCCT	240
GGAAAGGAGC	CAGATCACCA	GGGATCACAT	GGGCCAACTA	CTCTATCAGC	TGGTACAGTC	300
AGAAAAACTC	AGCAAACAGG	ACTTTTTCAA	AGGTTTTTCA	GAAACTTTGG	AATTGGCAGA	360
TGACATGGCC	ATTGATATTC	CCCATATTTG	GTTGTACCTT	GCTGAACTGG	TGACCCCCAT	420
GTTAAAAGAA	GGTGGAATCT	CCATGAGAGA	ACTTACCATA	GAATTTAGCA	AACCTTTACT	480
			TGAAATATTG			540
GAGCCATAAG	AAAGTGGGAG	CCTTATGGAG	GGAGGCTGAC	CTCAGCTGGA	AGGACTTTTT	600
ACCAGAAGGA	GAAGATGTAC	ATAATTTTCT	TTTGGAGCAG	AAGTTGGACT	TCATAGAGTC	660
TGACAGTCCC	TGTTCCTCTG	AAGCACTTTC	AAAGAAAGAA	CTGTCTGCCG	AAGAGCTGTA	720
TAAGCGACTC	GAG					733

- (2) INFORMATION FOR SEQ ID NO:822:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 512 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

TGCCAGATAG	TTCTGCAGAA	GAAATCACTG	TTTGTCCTGA	GACACAGGTA	AGTTCCTCTG	60
AAACTTTTGA	CCTTGAAAGA	GAAGTCTCTC	CAGGTAGCAG	AGATATCTTG	GATGGAGTCA	120
GAATAATAAT	GGCAGATAAG	GAGGTTGGTA	ACAAGGAAGA	TGCTGAGAAG	GAAGTAGCTA	180
TTTCTACCTT	CTCATCCAGT	AACCAGGTAT	CCTGCCCGCT	ATGTGACCAA	TGCTTTCCAC	240
CCACAAAGAT	TGAACGACAT	GCCATGTACT	GCAATGGTCT	GATGGAGGAA	GATACAGTAT	300
TGACTCGGAG	ACAAAAAGAG	GCCAAGACCA	AGAGTGACAG	TGGGACAGCT	GCCCAGACTT	360
CTCTAGACAT	TGACAAGAAT	GAGAAGTGTT	ACCTCTGTAA	ATCCCTGGTC	CCATTTAGAG	420
AGTATCAGTG	TCATGTGGAC	TCCTGTCTCC	AGCTTGCAAA	GGCTGACCAA	GGAGATGGAC	480
CTGAAGGGAG	TGGAAGAGCA	CGTTCGCTCG	AG			512

## (2) INFORMATION FOR SEQ ID NO:823:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 423 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

GAATTCGGGC	CTTCATGGCC	TACTCTCATC	TGTATCTGTT	TCCTCTAACT	TTACTGAAAA	60
GATAGAATTC	ATTAAGCATG	AATTCTACCA	TCTTCTCCCT	ACTACAGCTC	TGTCAAAAAG	120
ATGTTGCTCT	CTGAGCCCAA	CTCTCCCTCA	GTCCCCAGGA	TTCTGTCCCT	GTCCACCTTT	180
AATCTTTTCC	TTTCCTGATT	TTATGTTATA	AGTTATTTAG	ATTTCGATGA	GAGATAATCG	240
TACCTAGAGT	ATGGGAGAAC	TATTTAAGGT	TTACAGGTTG	GGTGGAACCC	TTGTATATAC	300
TAGATGGTAC	TGTGAGGGCT	TGCCACACTG	TCAGCCTTCA	TCTGAACAGA	GCAGAAAGTG	360
TTTCTGCATG	TTCACCAAGC	CCTGCTGGAC	TGTATCACTT	TTCTCTGTGG	GCCAAAACTC	420
GAG						423

- (2) INFORMATION FOR SEQ ID NO:824:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 353 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

GAATTCGGCÇ	TTCATGGCCT	AGCGGCCTCA	GATGAATGCG	GCTGTTAAGA	CCTGCAATAA	60
TCCAGAATGG	CTACTCTGAT	CTATGTTGAT	AAGGAAAATG	GAGAACCAGG	CACCCGTGTG	120
GTTGCTAAGG	ATGGGCTGAA	GCTGGGGTCT	GGACCTTCAA	TCAAAGCCTT	AGATGGGAGA	180
TCTCAAGTTT	CAACACCACG	TTTTGGCAAA	ACGTTCGATG	CCCCACCAGC	CTTACCTAAA	240
GCTACTAGAA	AGGCTTTGGG	AACTGTCAAC	AGAGCTACAG	AAAAGTCTGT	AAAGACCAAG	300
GGACCCCTCA	AACAAAAACA	GCCAAGCTTT	TCTGCCAAAA	AGATGATCTC	GAG	353

- (2) INFORMATION FOR SEQ ID NO:825:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 506 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

GAATTCGGCC AAAGAGGCCT	AGGAGTAAGG	ATGCAGAAAT	GATTGCAGCA	TATTTCATTC	60
TCTACGCAAG GATGTTCCTC	GGAAATGGAG	GCGACATTGC	TGCCTGCTTT	TTTGAGGGAA	120
TTGATGATGT TCACTGGAAG	GAAAATGGGA	CATTAGTTCA	AGTAGCAACT	ATATCAGGAA	180
ACATGTTCAA CCAAATGGCA	AAGTGGGTGA	AACAGGACAA	TGAAACAGGA	ATTTATTATG	240
AGACATGGAA TGTAAAAGCC	AGCCCAGAAA	AGGGGGCAGA	GACATGGTTT	GATTCCTACG	300
ACTGTTCCAA ATTTGTGTTA	AGGACCTTTA	ACAAGTTGGC	TGAATTTGGA	GCAGAGTTCA	360
AGAACATAGA AACCAACTAT	ACAAGAATAT	TTCTTTACAG	TGGAGAACCT	ACTTATCTGG	420
GAAATGAAAC ATCTGTTTTT	GGGCCAACAG	GAAACAAGAC	TCTTGGTTTA	GCCATAAAAA	480
GATTTTATTA CCCCTTCAAC	CTCGAG				506

- (2) INFORMATION FOR SEQ ID NO:826:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 337 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

GATGGAGCAG	TTCCAGAAGG	AGAAGGAGGA	ACTGGACAGG	GGCTGCCGCG	AGTGCAAGCG	60
CAAGGTGGCC	GAGTGCCAGA	GGAAACTGAA	GGAGCTGGAG	GTGGCCGAGG	GCGGCAAGGC	120
AGAGCTGGAG	CGCCTGCAGG	CCGAGGCACA	GCAGCTGCGC	AAGGAGGAGC	GGAGCTGGGA	180
GCAGAAGCTG	GAGGAGATGC	GCAAGAAGGA	GAAGAGCATG	CCCTGGAACG	TGGACACGCT	240
CAGCAAAGAC	GGCTTCAGCA	AGAGCATGGT	AAATACCAAG	CCCGAGAAGA	CGGAGGAGGA	300
CTCAGAGGAG	GTGAGGGAGC	AGAAACACAA	GCTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:827:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 216 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

GAATTCGGCC	AAAGAGGCCT	ACAGGTACAG	AATCATATGA	ATGTTTCTTT	CTTTCTTTCT	60
TTTCTTTCCT	TCTTTCCTTC	TTTCTTTCTT	TCTTTTTTG	AGACAGAGTC	TTGTTCTGTT	120
GCCAGACTGG	AGTGCAGTGA	CTCAATCTCA	GCTCACTGCA	ACCTCCACCT	CCCAGGTTCA	180
AGCAATTGTC	CTCCCTCAGC	GAGGACCTGC	CTCGAG			216

- (2) INFORMATION FOR SEQ ID NO:828:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 386 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:828:

GAATTCGGCC	AAAGAGGCCT	AAAAAAAAGA	AGATGGGTTT	TTTAAGTCCA	ATATATGTTA	60
TTTTCTTCTT	TTTTGGAGTC	AAAGTACATT	GCCAATATGA	AACTTATCAG	TGGGATGAAG	120
ACTATGACCA	AGAGCCAGAT	GATGATTACC	AAACAGGATT	CCCATTTCGT	CAAAATGTAG	180
ACTACGGAGT	TCCTTTTCAT	CAGTATACTT	TAGGCTGTGT	CAGTGAATGC	TTCTGTCCAA	240
CTAACTTTCC	ATCATCAATG	TACTGTGATA	ATCGCAAACT	CAAGACTATC	CCAAATATTC	300
CGATGCACAT	TCAGCAACTC	TACCTTCAGT	TCAATGAAAT	TGAGGCTGTG	ACTGCAAATT	360
CATTCATCAA	TGCAACTCAT	CTCGAG				386

- (2) INFORMATION FOR SEQ ID NO:829:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

GAATTCGGCC	AAAGAGGCCT	AGCTGAATCC	TAGATTTCAG	CTTCTCACTC	AGAATTTAAG	60
CTGTTTTCAG	TACCAGAAAT	ATTTAAGACT	GTTAGTTTAA	CTTCTAAGAA	TAGCAGATAA	120
AGCGTATAGG	TGTTTTGAGA	TAACCGTATT	CATAGGAAAA	ACAAACATAA	AACTTTCATA	180
ATTTTGGGAA	GAGTTACACA	CAAAAATATC	ATCATTGAAT	AATTAGTACA	ACAAAAATGC	240
ATTTGTTTGT	CCTAAAGGTT	GAAATGAACA	GAATCATGAT	GGGAATACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:830:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 146 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTC	TAGACCTGCC	TATGTCCTAT	TCCCTGTGTC	60
CTGCAAGACC	CCCTTTGGTT	TGGTTTTCTT	TTCTTTTCTT	TTTTTCTTTT	TTGAGACTGC	120
GTCTTGCTCT	GTCTCCCAGG	CTCGAG				146

- (2) INFORMATION FOR SEQ ID NO:831:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 158 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:

GCGATTGAAT TCTAGACCTG CCTCTCATCC ACTATTGTCT TTCCCCAATT TTTTTCTAGC
CTTATCTTCC AGAATTCCTC TCAGACATAG GTGGCCCTGG TTGCTTGATC CTGTCTCTAA
120

158

GTTGGTCTTT CATGTTTTCT CTCCTCAGAT TGCTCGAG

(2) INFORMATION FOR SEQ ID NO:832:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 317 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:	
GAATTCGGCC TTCATGGCCT AGCTGATTTA AATCTAAAAA CTGGATAAGA AGCTGTGGCT TGTAATTAAA AATAGACCTT TATTCACTAG ACCTACAGTT TGCTTTTTC ATATGTTAAG AAAAGTTTAA TATCCTGCT: CTCTATTTCA GTTCTAGGGG CACCACTATC AGTTAACCCT AAAGATTTCT GTGGGTGAAA CCATTTTGAT TACCATCTTG CTCTGCTGCC AGTTATGGTA ACCAAACTCT CTTTGTTTCT GGATGCTAAA TCTGTCCACT TGTGCCTTAA CTACATCCTA ACTCCCGTCA ACTCGAG	60 120 180 240 300 317
(2) INFORMATION FOR SEQ ID NO:833:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 339 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:	
GAATTCGGCC TTCATGGCCT AGCCCCCGGA GCCCACCACA GTCCCCAGAG TGTGATAAAA ACAATTTTTA TACTTCTTAT CTCTTTCTAG TAGTCTACAT CCCATTCCCA GTCTTTCCAA TCATAAAAAT TTGTAGTTTA TTTAGTTCAC ACTTGAACGT CCTATGAAAC TGTTTTAAAC CTTTTACCTA TCTTGTTTCT TGTCATTATT CTTAAGCCAT TGATACAGAA ATCAGAACCA AATTTAATAT TGTTGTGGGT ATGAGACAGT TTCTGTCATG TTTTAATTT TTCCTTAAAG TTTTACTATG TACTTCATAT ATACCGGGCA CTTCTCGAG  (2) INFORMATION FOR SEQ ID NO:834:	60 120 180 240 300 339
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 396 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:	
GAATTCGGCC TCATGGCCTA TGACTTTTAA GTTTCTTATT ACACTGAGAA ACACCTAACT ATCCTAATAG AATTAAATTT CCCTAAGTTA TAAGACACTT GAATTTTTTA AAAAGAGATA ATTAAATTTC TCCTATATTT TATTTCATTT ATTTTTTCAG TCATGCTCCT TCTGTATCTC CTATATTTTA TTATATTACT TACATGGCTT TATTTTTACA ATAACTCTTT TTTTCCCTTC TTTTATTTAT TTGTTTATTT TTGGAAACAG AGTTTCCTTA TGCTGCCCAC GCTGGTCCTG AGCTCAAGCA ATCTTCACGC CTCAGCCTCC CAAAATTATA GGACTACAGG CATGAGCCAC TGTGCCTGGC CTAAGCCACT GCACCCGGCG CTCGAG	60 120 180 240 300 360 396

- (2) INFORMATION FOR SEQ ID NO:835:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 294 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC	TTCATGGCCT	ACTTTTACTC	ATGCATAATT	TTGTAAAATC	CTACATTGGT	60
CATTTGGAAA	ATATTGATTC	ACTGAGTAAT	AÇAACTCTTC	CAAATGTTGA	ATGTTTCATT	120
CTACAATATC	AGAAACTCAA	TTTGTTAATG	TTACTACTAG	TCTCATCAGA	AATGTCTTTA	180
AGTATTTGTT	AACTGGCAAA	CTCATAGTGA	CGACTACAGG	CTTTCCAGAA	TTTTCATTTT	240
CATTTGAAGT	CTGAATTTTA	TCAACTATAA	ATACTGTCAG	TTGTTTCCCT	CGAG	294

- (2) INFORMATION FOR SEQ ID NO:836:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 352 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCC	TTCATGGCCT	ACTCTGATAC	TAACTGTAGT	CTACATTTAT	ACATTGTGTC	60
TGAATGCTGG	TTTTGTGGCT	TCACTAGCTC	CCTTTTTCTC	TCTCCTTTTT	TATCCTGTCT	120
TTTGCTGCTG	CTTTCCACCT	TCTGTCCAGC	TCCATCTTCA	GACAGCTCCC	TGTATAACGC	180
TCCACTTCCT	GAGTATTCCA	GTTGCCAGCC	TCCTTCAGCA	CCTCCTCCAT	CATACGCTAA	240
AGTCATCTCA	GCTCCAGTGT	CAGATGCCAC	TCCTGATTAT	GCTGTAGTGA	CTGCTTTGCC	300
ACCTACTTCC	ACACCCCCTA	CACCACCACT	GCGACACCCA	GCGACACTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:837:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 355 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC	TTCATGGCCT	ACCGGACCTT	GAAAATGGAA	TGTTCAGAAA	CACATGTGCA	60
AGGGAGCTGT	GCCAAGCTCA	TGTTGCGAAC	AGGCCTCCTG	ATGAAGCTTC	TCAGCGAGCA	120
GCAGGAAGCA	AAGGCATTGA	ATGTAGAATG	GGATACGGAC	CAACAAAAA	CAAATTATAT	180
TAATGAGAAC	ATGGAACAGA	ATGAACAGAA	AGAGCAGAAG	TCAAGTGAGC	TCATGAAAGA	240
AGTTCCAGGA	GATGACTATA	AGAACAAACT	CATCTTCGCA	ATATCTGTGA	CTGTAATACT	300
AATAATTTTG	ATTATAATTT	TTTGTCTTAT	AGAGGTGAAT	TCACATATGC	TCGAG	355

- (2) INFORMATION FOR SEQ ID NO:838:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 540 base pairs (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

GAATTCGGCC	TTCATGGCCT	AAAAAATCTA	GTTGAGAAAA	AGAAAGAAAC	CAAGAAGGCT	60
AATCACAAGG	GTTCTGAAAA	TAAAACTGAT	TTAGATAATT	CTATAGGAAT	TAAAAAAATG	120
AAAACCTCAT	GTAAATTTAA	GATAGATTCA	AACATAAGTC	CGAAGAAGGA	TAGCAAAGAA	180
TTTACACAAA	AAAATAAGAA	AGAGAAAAA	AACATTGTTC	AACATACTAC	AGACTCTTCT	240
${\tt CTCGAAGAAA}$	AACAAAGGAC	ATTAGACTCA	GGCACCTCTG	AAATTGTGAA	ATCTCCCAGA	300
ATCGAGTGTT	CTAAGACAAG	AAGAGAAATG	CAATCAGTGG	TTCAACTCAT	AATGACAAGA	360
GACAGTGATG	GTTATGAAAA	CTCAACAGAT	GGTGAAATGT	GTGACAAAGA	TGCTCTGGAG	420
GAAGATTCAG	AAAGCGTTAG	TGAAATAGGA	AGTGATGAGG	AATCTGAAAA	TGAAATTACA	480
AGTGTTGGTA	GAGCTTCAGG	TGATGACGAT	GGAAGTGAAG	ATGATGAAGA	GAAGCTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:839:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 539 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

GAATTCGGCC	TTCATGGCCT	AGCATTTCAT	CTCTAAATTG	GGGAGAATAG	AAGCATCTAC	60
TTCATGTAGT	AGCCAGGATT	AGAAGAGGGA	GGAATAACTG	GGCCCTGGAT	AGAATGTGAT	120
GAATGTATAT	TCTTAATGAG	AAGTGGAAAT	AATTTGTGGT	TGAGAGCTGT	GCCTCAGATC	180
AGAGTGACAG	GATACATGGC	TAGGCTATAT	TTTCCAGCAG	ATTAAGAGCT	GCAGCCCAAG	240
ACTCTGAAAT	ATGAAGAAAA	AAGGAGAAGA	TGACAGCATA	TCTTTTTAAA	GAAATATTTT	300
CCAGCCAAAT	GGTGCAGCAG	AGGACTTCCA	GGAATTTGTT	CTTGTTCTGT	ATCAAAGGTG	360
AAGAGTTCGT	AGCCTTCAAG	GAAACAAGAA	ACCATGGGAT	GGAGTGAAGG	AAGGTGGCCT	420
GGAACCAGCT	GCTGAGCCTC	TCTGAGCCCC	AGTTTCCTCG	TCTCTAAAAT	GGGGCTGATC	480
TCCTCTCCCT	CAGACTGTTG	TTGCAGGAAT	TAAAACAGGT	GTTGAGTGGG	CTGCTCGAG	539

- (2) INFORMATION FOR SEQ ID NO:840:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

TTCCACAGCT	CTGATATTCA	GTAACCCATG	TGGAGAACAA	AAGGATTTTG	CTCCATGAAG	60
TCTAATTGCC	TGCTGAATAA	ATAAATAAAT	AGATGAAGCA	CTGCATGCAT	TAAATGAAAG	120
TAAATATTGA	CCCTGCCACC	ATATGTTTGC	TGGGGTGCTG	GCTGAAGTGT	GCTGGCAGGT	180
CCAATCAGTC	AGAGTCTGCC	AGCCCAGCAA	GCAGGAGAGA	CAGGAATATC	AAAAAGGCGC	240
TCCTGCTTGT	GCCTTAATCT	TTGTCCAACC	CCCAATTCCT	CCACCACAGG	CCTCGAG	297

## (2) INFORMATION FOR SEQ ID NO:841:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

GAATTCGGCC TTCATGGCCT ACC	TTATTAG TGATTGGCGA	TTCAGGCCAT	GTCATAGGGC	60
CTTTCAGACA AAAGGTTCTT ATC	CCAGTCA GCTGGCCAAA	ACATTAACTT	TGGATTTCTT	120
ACCCTGCTAC AGCATCTTCT AGA	AAGGCAG CAAGATAATA	TTGTGGCAGT	GCACAGATAA	180
CATCAGGGTA GACTTGACTG GAG	AAAACCA AATTCTGCGC	TTGCTCCTGT	GTGCCCCCAT	240
CCAGCTGTGC ATGCACACAC AGG	ACACCTT TCTAGTATGA	AGAACTTGCA	TCATGTCTGC	300
CCTCTATTGA GCACCCCCTT CTA	GAAATAC TTCCAAGTAT	TAGCATGTGA	ACTGTTGACT	360
CTCGAG				366

- (2) INFORMATION FOR SEQ ID NO:842:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 190 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCTG	ACTTATGAAT	TCTTTCTGTG	TGATCGTAAA	60
AGTGCAGAGT	TTATTGCAAA	GAGAATCTTC	ATCTGAATCC	TCAGCCTGGG	AATCTTCCTC	120
TTCCACCGCC	AACTCCTCCA	CCCAGTCTGA	GTCTACTTCA	ATGGCCCGCT	CTTCCCCATC	180
CGCACTCGAG						190

- (2) INFORMATION FOR SEQ ID NO:843:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 627 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

GAATTCGGGC	TTCATGGCCT	AAGCTCCGCG	AGCCCCCTAC	AACTCGTTTC	CTTCCGTTCA	60
CCTTCGCAGG	${\tt GCGGCGACTG}$	GCGGCGCGAT	GGACCTGACC	GGGCTCCTGC	TGGACGAAGA	120
AGGCACCTTC	TCCCTCGCCG	GCTTCCAGGA	CTTCACGTTC	CTCCCAGGAC	ACCAGAAGCT	180
GAGTGCCCGG	ATCCGAAGGA	GGCTCTACTA	TGGCTGGGAT	TGGGAAGCCG	ACTGTAGCCT	240
GGAGGAGCTC	TCCAGCCCGG	TGGCAGACAT	TGCTGTCGAA	CTGCTCCAGA	AGGCAGCCCC	300
CAGCCCTATT	CGCCGACTCC	AGAAGAAATA	CGTAGCTCAT	GTGTCCCGGG	AGGCATGCAT	360
CTCCCCATGT	GCTATGATGC	TGGCTCTGGT	GTACATTGAA	CGGCTCCGGC	ACCGAAACCC	420
AGACTACTTG	CAGCATGTGT	CATCCTCTGA	CTTGTTCCTG	ATCTCCATGA	TGGTGGCCAG	480
TAAGTACCTC	TATGATGAAG	GGGAGGAGGA	GGAGGTCTTC	AACGACGAAT	GGGGAGCTGC	540
TGGGGGTGTG	GCCGTGCCCA	CTCTCAATGC	CTTGGAGAGG	GGCTTCCTGA	GTGCCATGGA	600

627

TTGGCATCTC TACACTGAAC GCTCGAG

(2) INFORMATION FOR SEQ ID NO:844:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 305 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:844:	
GCTTCTCTAA TTCCATTGTT TTTTTTAGAT TCTCTCGGGC CTAGCCGTCC TTGGAACCCG ATATTCGGGC TGGGCGGTTC CGCGGCCTGG GCCTAGGGGC TTAACAGTAG CAACAGAAGC GGCGGCGGCG GCAGCAGCAG CAGCAGCAAT CTCTTCCCGA ACACGAGCAC CACAGGCGCC CGAAGGCCGG AACAGGCGTT TAGAGAAAAT GGCAGACGAT ATTGATATTG AAGCTCTAGC	60 120 180 240 300
(2) INFORMATION FOR SEQ ID NO:845:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 409 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:845:	
GACTATGTGT GTTTCTGCCG TCTTAGGCAG CCAACGTATT GGTTTACATG GATCTGGAGG ATTATGCACA CTAGTGTTGA GTTTCATTGC AGGGACAAAA TGGTCCCAAG AAAAGATGAA AGTCCAAAAG ATTATTACGA CTGTATGGGA TATTTTTCAA CCACTTCTTT TTGGTTTAGT TGGAGCAGAA GTATCTGTTT CATCGCTTGA ATCAAATATT GTTGGCATAT CTGTTGCCAC TCTAAGTTTG GCATTATGTG TTCGAATTTT AACCACATAT CTATTGATGT GCTTTGCTGG	60 120 180 240 300 360 409
(2) INFORMATION FOR SEQ ID NO:846:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 370 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:846:	
(AI) DESCRIPTION. DEG ID NO.040.	
CATCTCAGGC TGGGAAGGAG TAGCTGGGCC TCCCTTTAAT GCAGCGGCAC TGGTTTGGGT CACAAGAGCT GGTTTGATCA ACCCCTGACT CCCCCTGGCG GGAGGTGCTC GTCACATCTG GGAGCCTGAG CAGAGGTGCC GGGGGCTTGG AAGCTGGAGA AATGATGGAT CTTTCTCCAG GAGAAACAAT TCTTATCTTC ACATCNGCCC CGTGCTCCAA ATGAAGAGCG CGTTTGCATA	60 120 180 240 300 360
372	

GCT	GCTCGAG	. 3*	70
(2)	INFORMATION FOR SEQ ID NO:847:		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 504 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	•	
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847;		
GGCT ACAC CAC CTT TATC CAAC GAAC TTGT	TTCGGCC TTCATGGCCT ACGCGCGGCC GAGCGGAGGC GGAGTCGGCG TGGAGGC AAAGCTGGAA AGGACAGTGG GAAGGCCAAG GCTAAGGCAG BAGAGCT GGGCTACAGT TTCCTGTGGG CCGCATCCAC AGACACTTGA AAGCCAT GGAAGGGTGG GTGCCACTGC TGCCGTGTAC AGTGCTGCGA CACTGCA GAGGTGCTGG AGCTGGCAGG TAATGCTTCT AAGGATCTCA CACTCCG CGTCACTTGC AGCTTGCAAT CCGTGGTGAT GAAGAGTTGG BGCTACC ATAGCTGGGG GTGGTGTAT CCCTCACATC CACAAATCTC CAGGACAG CAGAAAACTG CTTAGAGGGA TGCTTTAACC AACCTCTTCC TACTGTA ACTGGGACCT CGAG  INFORMATION FOR SEQ ID NO:848:	TATCTCGCTC 12 AGACTCGCAC 16 TTCTGGAGTA 24 AAGTAAAGCG 30 ATTCTCTTAT 36 TGATTGGAAA 42	30 40 50 50 20
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 436 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:848:		
TTAC TGCT GTTT TCAF AAAT TATC	TTCGGCC TTCATGGCCT AAACAAGCAG AGGGACTCCC CAGATAGCTT GCTTTAT AACAAGTGTA GTTTTAGGCT CTGTCTTGGC ATACTTGAGA TTCAAAA CAGGCATTTG AACTCGCTGT TTAATCAAAT TCTTCTTTAA TCCTCATA GAGAGCATAT ACACTTAACC CTTGAACAAT GTAGGGGTTG ACCCCCT GTGAAGTAAA AATTTGCTAA TAACTTTTGA CTCCCCCAGA TAGCCTA CTATTGATTG GAAGTGTTAC CAACAGCATA CACAGTTAAC GTAATAT GTGTTATCCA CTATATTCTT ACAATAAAGT TAGCAAAAGA AGGAATC CTCGAG	GCACAATGGC 12 TCTAAAGTGA 18 GGGTGGGGAG 24 ACTTAACTAT 30 ATATATTTTG 36 AAAAAATGTT 42	00 50
(2)	INFORMATION FOR SEQ ID NO:849:	·	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 502 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:849:		
	TTCGGCC TTCATGGCCT ACATGAGCCC AGGAGTTGAA GGCTATAGCC AAGGCCC CATCTCTAAA AAATATATAA ATAAATAAAG TTAAGGATGC		60 20

ATATGTTCAG	AAAGAGATTG AGGTAATAAA AGAGTTTTTG GCCAGGCTCT GGCTTACACC	180
TCGGCCTCCC	AGAGTGCTGG GATTACAGGC ATGAGCCACC GCGCCCAGCC GGAAGTAGGT	240
TTTTTGAAGA	GTCAGCTGAA AACAACTGTT GCCGTATTCG GAATTTAAAA TTTTAATTTG	300
	AACTGAGAAA TTATTGTATA TATTTATGGT ATACAGCGTG ATGTTATGAT	360
ACATGTATAC	AATGCAGAAT GATTAAATCA AGCTATTTAA CATAGCTGTC ACCTCAAATA	420
CTATTTTTGT	GGTCAGAAAT TTGAAATTTA TTATCTCAGG AATTTTGAAA TGTACAATAC	480
ATTATTATTA	ACTGTTCTCG AG	502
(0)		
(2) INFORM	ATION FOR SEQ ID NO:850:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 291 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
(ii)	MOLECULE TYPE: cDNA	
	APARTITATION ADARDITATION AND TO MA	
(X1)	SEQUENCE DESCRIPTION: SEQ ID NO:850:	
GAATTCGGCC	TTCATGGCCT AGATAAAAAG AAACAAAAAA GAGAAGATAT GATAAGAGAA	60
	ACCATAAATA TTTGGCACAG AGACGTGAGG AAGAAAAAGC TCAGGAGAAA	120
GAATTTGACA	GAATATTAGA GGAAGACAAG GCAAAGAAGT TGGCTGAGAA GGACAAGGAG	180
CTGAGACTTG	AAAAGGAGGC AAGGAGACAG CTTGTGGATG AGGTCATGTG TACAAGAAAA	240
CTTCAAGTTC	AAGAAAAGTT GCAACGAGAA GCTAAAGAAC AGGAACTCGA G	291
/2\ TNEODW	AUTON FOR GEO AR NO OF	
(2) INFORMA	ATION FOR SEQ ID NO:851:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 311 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:851:	
,,,,,,	5-45-100 DEBONITION. DEG 15 NO.001.	
	6	
	TCTGTTGGTT GGAGTGTTCT ACTATTGTTG GGTGGAGTGT TCTATCTTCT	60
	GTGTTCTGCT GTTGTTGGGT GGCGTGTTGT ATATTCTGTT GTTGGGTGGC	120
	TTCTGTTGTT GGGTGGCGTG TTCTATCTTC TGTTGTTGGG TGGATGGATT	180
	CTGTTGGGTG GCATGTTCTA TCTTCTGTTT TTGGGTGGAG CGTTCTATCT	240
	GGCGCATTCT ATATTCTGTT GTTGGGTGGC GTGTTCTGTA TTCTGTTGTG	300
GGTGGCTCGA	G	311
(2) INFORM	ATION FOR SEQ ID NO:852;	
(1)	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 532 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

GAATTCGGCC CTTCATGGCC TAGTCTCATC TCAGAGTACT CAGAGAAACT ATTTTTTAAT 60 CTCTAGATAT CAATCAATGA ATATTTATTA TTAAATACCT GCTATGTGCC AGATGGTGTT 120

AATTATAAGT	TTGTTCTCTT	TTTGTCGTGC	TACTTAGGCT	TTTATCATTT	TGTCCTATCA	180
TTAGGGAAGT	GGCTCCNNNN	CTTACAGCTA	ATTTTTTTT	CAATTTACTA	ATGACTTTTT	240
GTGGAGGTGG	GGATCTCTTC	TGTTCAACAT	TTTCTATGAT	TCATCTCAAT	CCTCCAGTGA	300
TTATTAAAAA	ACAGTTGCAG	TAAGTTCAGT	CATAGGGGCA	CTGGAATGAG	TCCTTAAAAC	360
TTTATGCTGC	TGCTTTTGCA	ATGATGGATT	GCCTGAGAAT	TAAGGAAAGA	TAACTACTCT	420
CTTGGTCACT	GTATTTCCAA	TCAACCATAT	CCTCCCAGAA	TATGATTTCT	TCCCTCAGGC	480
ATTTTAGAAA	AGAGACAAGA	GACAGATTTT	TTTTTTCAGG	CAATGACTCG	ΔG	532

- (2) INFORMATION FOR SEQ ID NO:853:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 415 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

GAATTCGGCC	TTCATGGCCT	ACTTTTTGAT	AAGCAACTAG	TGGTCTCATT	ATCAGAGGTC	60
CCTGAGGGGC	CCTACAGGCC	CCCCCAGGTT	CTGCCCCCAA	GATTCTAAGA	GAGACCTTGT	120
			TTGTTTGGAT			180
GCACAATAAG	GTAAATCATG	AGATGTGAAG	GAGAATGAAG	ATCAGGCCAG	AGGTCACCAT	240
TCATTGAAGA	GCCAGAGAAA	AAGAAAATTA	GTGCACAGAT	TTGTGTAGAT	TTACAGAGAA	300
			GCTGCACCAT			360
TCTTTGGGGC	CTGATAGAAC	TGAATTAATA	TGAAGAAATT	GAAGTGGCTC	TCGAG	415

- (2) INFORMATION FOR SEQ ID NO:854:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

${\tt GAATTCGGCC}$	TTCATGGCCT	AGTAAAATTA	GCTGAAAAAT	AATTTTCCAA	TGCAAATACT	60
AATGAGGGTT	ATATGACCGT	TGTCCAAAGC	ATTTGCAGTG	CTGCATGACA	TTTGTCCTAA	120
AACCTGACTC	TTAAAACATT	CCTTGTGAAA	ATAGAAATAT	TCCCATGCCT	AGATTCCAAA	180
TAATAAAAGA	CACTGAGAGT	GTTTTCAAAA	TTAATGGACT	GATTTAAATT	TCACTGGAAA	240
GCAGCTTTTT	AAAACTAAAT	TGTCTGGATG	TGGCCTCCCT	GTGATCACTT	CCAACTGCTT	300
ACTGCCAACT	TCTGGCGGCT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:855:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 616 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

CAAmmeeeee	mmo					
			AGATGGAAGG			60
AGCAAAATCT	TCACAATCAT	CTTGAGTTTC	TCAGCAAAGT	CGGCCTGGCT	GGAAATTCCT	120
GGCGCTGCCA	TGCTGAAGGT	GACCAGCAAC	ACAGCCCCCA	GGATGGTCAG	TTGTTCCAGC	180
			TCCATTAAAA			240
			TAAGCGTAAT			300
			ATTCCCCCCA			360
			TCCAGCCACT			420
			TTCTTCCTTT			480
			AAGTTGGCCA		CATTAGGTCC	540
						540
		GAAAAGGGGC	ACTATTTCCT	TAATGTCCTT	TAGTTTCTTA	600
ACTTCCTCAT	CTCGAG					616

- (2) INFORMATION FOR SEQ ID NO:856:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 497 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

GCTCTGGGTG	AAAAGATCTC	ACACCAATGT	ACATAATGTG	GCCATCCTTT	CCATTTTCAA	60
GAAGTTGCCT	TGCTTTGATA	CTGCAAATTC	AGTATTTGTA	CACTGGAATG	ATAAAAAGAT	120
			CTCGTTGTGT			180
			TGTTACCTTA			240
			GGCCATGCCA			300
			CCATTCCACC			360
GTTTGGAAAC	TGACCAGCAA	GCTGGAGCTG	CCACCACAGA	GAAACATCAA	AGCAAAAGGG	420
		TAACTAGCTA	CAGGCCAGAG	GAATGCTTCC	CTCTCTAGAT	480
CAACAAGCAC	CCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:857:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 262 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

GTTCATGGCC	TAGATGCTGG	TTTGTTTTTG	TTTTCGTTTT	TTTGAGACAG	TCTTGCTCTG	60
TGACCCGGGC	TGGAGTGCAG	TGGTGCGATC	TCGCTCATTG	CAACCTCTGC	CTCCCAAGTT	120
CCAGCAAGTC	TCCTGCCTCA	GCCCCCACC	GAGTAGCTGG	GACTACACGC	AAGTGCCACC	180
ACGCCCAGCT	ACTTTTTGTA	TTTTTAGTAG	AGATGGGGTT	TCACCATGTT	GGCCAGGCTG	240
GACTCGAATT	CCTGACCTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:858:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 441 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

GAAACTATAA	TCATCAGTAC	TGTAATGAGC	AATTATGAGG	CCTACAAGCC	TTCCACAGGA	60
GCTATGGGAG	ATCGACTAAC	GGCAATGAAA	GCAGCTTTCC	AGTCACAGTA	CAAGAGTCAC	120
TTTGTTGCAG	CCAGTTTAAG	TAATCAGAAG	GCTGGAAGTT	CTGCTGCTGG	GGCAAGTGGG	180
TGGACTAGTG	CAGGGAGCTT	GAATTCTGTT	CCAACTAACT	CAGCACAACA	GGGCCATAAC	240
AGTCCTGACA	GCCCCGTCAC	CAGTGCCGCC	AAGGGCATCC	CAGGCTTTGG	CAATACTGGC	300
		GACCTACCCG				360
GCTTCAGGGA	ATAACAGCCG	AGAAGGGACT	GGGGGCAGCA	ACGGGAAAAG	AGAGAGATAT	420
ACTGAGAACC	GGGAACTCGA	G .				441

- (2) INFORMATION FOR SEQ ID NO:859:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 384 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

GAATTCGGCC	TTCATGGCCT	ACTGGTCGCC	AATGTGCTGC	AGGTCATGGC	TCCGGAATCA	60
AATTGGGCTC	AAACGGGGCA	AGCTCCAACA	CAGTGGAGCC	TGGCGCTACT	CCCACCTCCA	120
CCTTGCGGAT	CTCAGAGCTG	CAGGATGGCT	CTGCCCACCG	CACCCTGAGC	TGGCCCCGCT	180
TGGGGCTGGC	ATTGGGGGAC	AGTGTGTTCT	GGGCGTCTCT	GCTCCTCTCT	GCTGGTGCCT	240
GTGCCTCTGC	TGGCCGCCCA	CTCATAGATG	TCAGAGCCAC	AGGACGGCCC	CGCAGAATCC	300
CTGCGCCGAC	CCTGCCGGGG	GCTGGCTTTG	GTGCACATGC	AACTCGTCAT	CGTGGTCCCC	360
ATGGGCACCT	CTGCTCTTCT	CGAG				384

- (2) INFORMATION FOR SEQ ID NO:860:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 421 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

GAATTCGGCC	TTCATGCCTA	CGTTTCCCGA	GAAACCAAGC	CACAAAAAGT	ACAGGGCCGC	60
CCTGAAGAAG	GAGAAACGAA	AGAAACGTCG	GCAGGAACTT	GCTCGACTGA	GAGACTCAGG	120
ACTCTCACAG	AAGGAGGAAG	AGGAGGACAC	TTTTATTGAA	GAACAACAAC	TAGAAGAAGA	180
GAAGCTATTG	GAAAGAGAGA	GGCAAAGATT	ACATGAGGAG	TGGTTGCTAA	GAGAGCAGAA	240
GGCACAAGAA	GAATTCAGAA	TAAAGAAGGA	AAAGGAAGAG	GCGGCTAAAA	AAACGGCAAG	300
AAGAACAAGA	GAGAAAGTTA	AAGGAACAAT	GGGAAGAACA	GCAGAGGAAA	GAGAGAGAAG	360
AGGAGGAGCA	GAAACGACAG	GAGAAGAAAG	AAAAAGAGGA	AGCTTTGCAG	AAGGGCTCGA	420
G						421

- (2) INFORMATION FOR SEQ ID NO:861:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 271 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

GGATTTCTTT GGAAT	GGGCA AAGAAGTGGG	GAATCTGCTA	CTGGAAAACT	CACAGCTTCT	60
GGAAACCAAA AACGC	CTTGA ATGTGGTGAA	GAATGACCTG	ATTGCCAAGG	TCGACCAGCT	120
GTCCGGGGAG CAGGA	GGTGC TGAGGGGCGA	GTTGGAGGCT	GCTAAGCAGG	CCAAAGTCAA	180
GCTGGAAAAC CGTAT	CAAGG AGCTGGAAGA	GGAACTGAAA	AGAGTGAAGT	CCGAGGCCAT	240
CATCGCCCGC CGTGA	ACCCA AAGTTCTCGA	G			271

- (2) INFORMATION FOR SEQ ID NO:862:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 288 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

GCGGCTCTTT	GGGAGGTGGT	CAGGGGAAAA	GATGGTCAGT	GCTTTTTCTG	GACAAATCCA	60
GGGGCCAATT	GAGGTGGGGA	GTCTATGAGA	AGGGCCCTGT	CAGCTGAGGC	GAGGGAAAGG	120
GCAGAGGACC	TAGAATAAAA	GGATATGGCC	TCTCTGTGCA	CTAGCAGGAT	GGGTAGGAAA	180
GGGAGATATG	AAAAGACGAA	ATGGGGACCG	GGTGCGGTGG	CTCACGCCTG	CAATCCCAGC	240
ACTCTGGGAG	GCCAAGGCAG	GCAGATCACC	CGAAGTCAGG	AGCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:863:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 326 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

GCTCGAGTGG AATGGGCCGA	GGAGATGGAT	TTGATTCTCG	TGGCAAACGT	GAATTTGATA	60
GGCATAGTGG AAGTGATAGA	TCTTCTTTTT	CACATTACAG	TGGCCTGAAG	CACGAGGACA	120
AACGTGGAGG TAGCGGATCT	CACAACTGGG	GAACTGTCAA	AGACGAATTA	ACAGAGTCCC	180
CCAAATACAT TCAGAAACAA	ATATCTTATA	ATTACAGTGA	CTTGGATCAA	TCAAATGTGA	240
CTGAGGAAAC ACCTGAAGGT	GAAGAACATC	ATCCAGTGGC	AGACACTGAA	AATAAGGAGA	300
ATGAAGTTGA AGAGGCTCTT	CTCGAG				326

- (2) INFORMATION FOR SEQ ID NO:864:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 546 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GGAATGGGGA	GAGGGATCTA	CCAAGGTNAC	AGCAGTTTTT	TGAGCAGCTG	GCACGTGCCT	60
CTGCTGCCAA	CATGATGAGG	TACAGAACCC	AGCACAGGGA	ATGCTCAGCC	TGTGACTGTG	120
			CGGTATACTC			180
GCAGGAAGAG	GAAAGCAGAG	GAAGTGGACT	TGAAGGACCA	AAGGTGGGAT	CCTAGCTGGG	240
CCAATCACTG	AGAAGCCATG	TGGTCTTGGG	CAAGTCATTC	CCTTCTCTGA	GCCTCAGTTT	300
			ATGCCTACCT			360
TAAATGAGTT	ATGCCATGGA	AGTGCTGTAC	ATTACCCATT	GATAATGTCT	CAGTGGCCTC	420
TCAATGAAAT	GGAGTGTGAC	AGAGTGCCAC	ACTCTGAAAC	GGCTCATCCC	CGGTGATGGT	480
GCTGGGACTA	GAACCCGGGC	AACCTCGCAG	TGCCATGCCC	TACTGCATCA	CTACGTCCAC	540
CTCGAG				•		546

- (2) INFORMATION FOR SEQ ID NO:865:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 808 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

			AGTATAAATC			60
ATTAAGTAAT	ACTAAACCAC	TTCGCATATA	AATACATCAC	AACAGTATAC	TTCCGTTTAT	120
GCTATCTTGG	TCTTTGTACT	TTTGTTTTTG	TACATTTTAC	TTTGGCATAA	ATGTCAAAGT	180
			TTTGCCTCTC			240
			CTATACACGT		TTCCAACAGC	300
			${\tt TTTTTTTTT}$		AGACGAGCTC	360
			${\tt CTATTTCGGC}$			420
			CCCGAGTAGC			480
ACCACGCCCG	GCTAATTTTT	TGTATTTTTA	GTAGAGATGG	GGTTTCTCCG	TGTTAGCCAG	540
GATGGTCTTG	ATCTCCTGAC	CTCGTGATCC	GCCCACCTCG	GCCTCCCAAA	GTGCTGGGAT	600
TACAGGCGTG	AGCCACCGCA	CCTGGCCTAT	TCTGTCCCTT	TTTAAAGCAG	TTCTCTTTTA	660
AAAAATTGTG	GTAAGATATA	AATCACATAA	AATTTGCAGT	TATAACCATT	TTAAAGTATA	720
TAATTCCATG	GCATTAATTA	CAGTCACAGT	CTTTTACAAC	TATTATTACT	ATGTATTCCT	780
AAAGTTTTTT	TACCCTCCCC	CCCTCGAG				808

- (2) INFORMATION FOR SEQ ID NO:866:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 361 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

GAATTCGGCC	TTCATGGCCT	AAAAGAAAAT	GGCTTCAGTA	AGTTAGGATG	AAAAATGAAA	60
			TTTAAAAAAA			120
ACCTCCTCTC	CCCACCCCAA	ACTAAAAAA	GAAAAAAAGG	TTTTCTAATG	AAAATCTTTA	180
AAAATACTGT	CAGTATTTTA	AAATTTTCAA	CAGTATTATA	AAAACATTGC	ATCTCCCCAC	240
CTCTAATATG	CATATATATT	TTTCCTGCTA	AAATTGGTTT	CTACAATTGA	GTAAATGGCA	300
AATACATGAA	GCAATGTCCC	TAAATTTTAT	AAAGAAATTA	TATTTAATGC	ACATTCTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:867:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 880 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGAAAA	60
CAGTCTTTTA	ACCTTTCAAA	ATGCCACAAT	GTGCATTTTA	GATTGCCCTT	AGTTTCCCAA	120
CTCTCAGTAT	ATAGAGACTC	AATTAGAAAA	${\tt GAAATGGTGC}$	TAGTAGCTTC	AACCCACTGG	180
TATGTATTTG	AGGAACTGTT	CCTGGTAGAA	GGCAGTACCG	TGTCCCTTGG	TATTGCTACT	240
GTGCCTGCTA	TGTTACTTCT	TTATGTATAT	GATATGGAAG	TAACTCCTTT	TATACATGTG	300
GAGAAGTTTC	ACAGCTTTTT	TTCATAGTCA	TTGCATTAAA	ATGTCTGCTG	AGGCTGGGTG	360
TGGTGGCTTA	CGCCGGTAAT	CCCAGCACTT	TGGGAGGCCA	AGGTGGGTGG	ATCACCTGAG	420
GTTGGGAGTT	CAAGACCAGC	CTGACCAATA	TGGTGAAACT	CCGTCTCTAC	TAAAAATACA	480
AAAATTAGCT	$\tt GGGTATGGTG$	GCGCACACCT	${\tt GTAATTCCAG}$	CTCCCGCCGG	GCGACTCGAC	540
CAAAGAGGCC	GGAATTTGGC	CCTCGAAGCC	AAGAATTCGG	CACGAGGGGT	ATTTTTATTT	600
TTANTTNTTC	TGTTTCTCTC	TNGAGTGTAT	AGTGTAGAGG	$\tt GGGTTTCTGT$	CTTGAGTGTA	660
GGCCTGGAGA	TTTCCCTTAT	ATGGTACAAA	CCAGCAATGA	ATTAAGAGGT	CTCTTTTCTC	720
CAAGATCTAG	TGTTTTGTAC	TAGGAGAACT	CTAAAAAGTA	TCTATTTCAC	TGTAGTGCCA	780
AAGTACAAAT	TTATTTGGAT	TTATTTTTTG	CCATCTTATT	${\tt TTTTAATATA}$	TTTCTTTTTC	840
TATGTTGTGC	TTCTTTCCCA	CCTCATCTCT	CCTCCTCGAG			880

- (2) INFORMATION FOR SEQ ID NO:868:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 366 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

GAATTCGGCC TTC	ATGGCCT AGTCATGGCT	TTAGAATCTG	GAGAAGAGTC	TGACTCACTT	60
CTTTCCTGAG GGG	ATGCACT GGGTTTCACA	TCAAGTTCTT	GAGAGGATCC	CGAACGACTT	120
CTCTGCCCCA GGG	GAGTCCG AGCCACAGTT	TTCTGATCAA	CTGATGATTC	TGACCCGCTT	180
CTTTCTCTCT GGG	GGGTAAG ACACTTGTTG	TTGAGCTCTG	GGGATGATGG	AGAACGACTC	. 240
CTCGGCCTAG GAG	TCTGAGG CAAAGCTTTC	GGTTCTGGGG	AAGAATCACA	TTCGCTTCTC	300
CCTCTAGATG GCG	TTCTAGG TATATCTTTC	ATTCCAGGAG	AGGACCCAGA	CAGGCTGTGC	360
CTCGAG ·					366

- (2) INFORMATION FOR SEQ ID NO:869:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 529 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

GAATTCGGCC	TTCATGCCTA	GAGGATCTTC	TCCTGACCCA	GCATCGCTCA	TCACAATGAA	60
GAACCAAGAC	AAAAAGAACG	GGGCTGCCAA	ACAATCCAAT	CCAAAAAGCA	GCCCAGGACA	120
ACCGGAAGCA	GGACCCGAGG	GAGCCCAGGA	GCGGCCCAGC	CAGGCGGCTC	CTGCAGTAGA	180
AGCAGAAGGT	CCCGGCAGCA	GCCAGGCTCC	TCGGAAGCCG	GAGGGGGCTC	AAGCCAGAAC	240
GGCTCAGTCT	GGGGCCCTTC	GTGATGTCTC	TGAGGAGCTG	AGCCGCCAAC	TGGAAGACAT	300
ACTGAGCACA	TACTGTGTGG	ACAATAACCA	GGGGGGCCCC	GGCGAGGATG	GGGCACAGGG	360
TGAGCCGGCT	GAACCCGAAG	ATGCAGAGAA	GTCCCGGACC	TATGTGGCAA	GGAATGGGGA	420
GCCTGAACCA	ACTCCAGTAG	TCAATGGAGA	GAAGGAACCC	TCCAAGGGGG	ATCCAAACAC	480
		ACGAGGTCGG				529

- (2) INFORMATION FOR SEQ ID NO:870:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 372 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

GAATTCGGCC	TTCATGGCCT	AATTTGAGCT	TCAAGTCTCC	ATGTGTATAA	TGTGGGGTTG	60
ATGCTGTGGT	GCTCCAAGGT	GTTGGGGGGT	TTTAGGCAGA	GTTCTTATGC	TTAATATAGG	120
	GTTCGAGCTT					180
GGGGTTCTAC	CTCTTCCAGA	TAATTCATCC	TGGAGCTACT	AATTCTATCT	CCCCATTGAT	240
TTTAGTGTCC	TGTCTGTTTC	TAAATCTACT	GGGCAGTTGG	AGACATTGTC	TTTTGTTCCC	300
TCATCTATCT	TCTGTATCCA	CAGTTGATAA	TTGTCTATGT	TTTTAGTGTG	TTTTAAGGAA	360
ACTAGTCTCG	AG					372

- (2) INFORMATION FOR SEQ ID NO:871:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 574 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCGGCC	TTCATGGCCT	AGGTGGTGGG	TGCCTGTAGT	CCCAGCTACT	TGGGAGGCTG	60
AGGCAGAAGA	ATTGCTTGAA	CCCGGCAGGC	AGAGGTTGCA	GTGAGCTGAG	ATCGTGCCAC	120
TGCACTCCAG	CCTGGGTGAC	AAGAGTGAGA	CTCTGTCTCA	AAGAAAAGAA	ACAAAAAATT	180
		CACTGGCAAG				240
		GCTGTGCCAT				300
CTGAAAGGCG	TCCTGTGCAC	TCGTGAGCAC	CAGCCTGAAC	AGATGAAAAG	GCTGAGCTGG	360
AGGGGCTGGG	ACACAGCCCA	CCTTGACGAC	AGCTGCTCCT	GGCTGTGCGG	GGGGGTCTCC	420
		TAGGATCGCC				480
GTTTGGAATC	TTCCCTCCCC	AGCCCCCCAG	CCTCATCAAA	GGCTGCCTTT	TCCTGTTCAC	540
TGACCACAGC	TGCTTTGACT	CCATTAGCCT	CGAG			574

- (2) INFORMATION FOR SEQ ID NO:872:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 528 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GAATTCGGCG	TTCATGGCCT	ACCAGACTAC	TACGGACTCA	TCTAACAAAA	CAGCACCGAC	60
TCCAGCATCC	AGTGTCACCA	TCATGGCTAC	AGATACAGCC	CAGCAGAGCA	CAGTCCCCAC	120
TTCCAAGGCC	AACGAAATCT	TGGCCTCGGT	CAAGGCGACC	ACCCTTGGTG	TATCCAGTGA	180
CTCACCGGGG	ACTACAACCC	TGGCTCAGCA	AGTCGCAGGC	CCAGTCAACA	CTACCGTGGC	240
TAGAGGAGGC	GGCTCAGGCA	ACCCTACTAC	CACCATCGAG	AGCCCCAAGA	GCACAAAAAG	300
TGCACACACC	ACTACAGTTG	CAACCTCCAC	AGCCACAGCT	AAACCTAACA	CCACAAGCAG	360
CCAGAATGGA	GCAGAAGATA	CAACAAATTC	TGGGGGGAAA	AGCAGCCACA	GTGTGACCAC	420
AGACCTCACA	TCCACTAAGG	CAGAACATCT	GACGACCCCT	CACCCTACAA	GTCCACTTAG	480
CCCCCGACAA	CCCACTTCGA	CGCATCCTGT	GGCCACCCC	AACTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:873:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 611 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC	TTCATGGCCT	AAGCTGCACA	AAACGTAGAA	AGAAGACATA	GCGCCTGCCA	60
GGGGAATAGG	AAATGAGGGC	ACTTACACAT	TAATGTGAAT	TAGTAATTGT	GGTATAGAAA	120
TGTTTTATAG	TGAAAGATTC	AAATTTGCTT	TTCAAGAAAA	ATGCCAAAAG	CTATTTAAAT	180
AATTCGAGGT	TACATCGTAG	GTTTTGATTT	TTCTCAATTT	AAGATACAGA	AATACAGCAA	240
GCCTTAATAT	AAAGTTTCCT	AAAGTTTCTT	CAAGTATTTT	TTAAGGTGGA	GAAATGCAGG	300
AATTGTATAA	CCAGAATTGT	TTCTGCCTTT	AGCTTTTCAG	AACTTGAGAT	GTGGCAGCAC	360
TGGACTGGGT	TTTTTTAAAT	GTTAGGACTA	GGAATGTTTG	CTCTTGTTAA	TTATGAATTA	420
ATTGATTATT	AAGTTTAGAA	TGCATTTTTA	CAAGTATCTA	ACTATCAAAT	TGTGTTTAGT	480
AACTTGAGTG	TATGCACAAG	TTTGATCAAC	AGCAAAATAG	AGTTCTGAAT	TTCTTTTAAA	540
GTGATGATAT	ATTATTTTGT	GAAACTTTGT	GTTTGAAAAT	GTTTATTTCT	GTTTATGGTG	600
TAATACTCGA	G					611

- (2) INFORMATION FOR SEQ ID NO:874:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 303 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

GAATTCGGCC	TTCATGGCCT	ACGAGCGGTG	AAGGAGGAGA	CCAAGGAGGA	TGCTGAGGAG	60
AAGCAATAAA	TCGTCTTATT	TTATTTTCTT	TTCCTCTCTT	TCCTTTCCTT	AAAAATTTTT	120
ATTTTACCCT	GCCCCTCTTT	TTCGGTTTGT	TTTTATTCTT	TCATTTTTAC	AAGGGACGTT	180
ATATAAAGAA	CTGAACTCAA	CATTCAGGTT	GTTTTTTTT	TTGTTTCTAA	GTTTTTGCCC	240
TATTGAAGAT	GACTTCAGAA	AATCCATTCC	CCAGTCATGA	AAATGTACTG	TGCTATTCTC	300
GAG						303

(2) INFORMATION FOR SEQ ID NO:875:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 348 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

GAATTCGGCC	TCATGGCCTA	ACGGCAGCGG	CAGCCTCTGA	AAAGAATCGG	GGCCCAAGAA	60
AAGGCGGTCG	TGTTATCGCT	CCCAGGAAGG	CGCGCGTCGT	GCAGCAGCAA	AAGCTCAAGA	120
AGAACCTAGA	AGTCGGAATC	CGGAAGAAGA	TCGAACATGA	CGTGGTGATG	AAAGCCAGCA	180
GCAGCCTGCC	CAAGAAGCTG	GCACTGCTGA	AGGCCCCAGC	CAAGAAGAAA	GGGGCAGCTG	240
CCGCCACCTC	CTCCAAGACA	CCTTCCTGAG	GACGCTGGCC	CCAGTGCAGG	CCAACATCCC	300
ACCCCCTACC	TCCATATGGG	ACCTTGCAAG	TCATCCCACT	TCCTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:876:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 586 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGAGAC	60
TATTTTCCAT	TTCACACAAG	AAATCTTTGA	TTATTCAGTA	AAAAGAGGAA	ATATAAGAAA	120
AAAAATCAGA	CTAGTCTGGC	CAACATGGTC	TAAAAATACA	AAATTAGCCA	GGCATGGTGG	180
CGGGCGCCTG	TAATCCCAGC	TACTTGGGAG	GCCCAAGCAG	GAGAATCGCT	TGGACTCGGG	240
AGGCGGAGGT	TGCAGTGAGC	CGAGATCATG	CCACTGCACT	CCAGCCTGGC	AGACAGAGCA	300
AGACTCCCTC	TCCAAAAAAG	TTAAAAAAAA	AAAAGAAAAA	AAAGGCCGGG	TGCAGTGGTT	360
CGGCCTCCCA	AAGTGCGGGG	ATTACAGGCG	TGAGCCACCA	TGCCCGGCCA	CTTTCTGTAT	420
${\tt AATAATTTT}$	ATAAGAAATA	CACATTTAGT	AGTAGTTACA	AAGATCTGTA	GGCCGTAGCA	480
AATATTCAGT	AACTGGAAGA	TGCCAATGAA	CATTGTTGGG	TAGTATTTAA	ATAACAAAAT	540
GTTCAAATAT	TTGACAAGAT	TAACAACACT	ACACGGCCTT	CTCGAG		586

- (2) INFORMATION FOR SEQ ID NO:877:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 445 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGTAA	60
TTTTAAAAAAT	TTATGTATTT	TCTAGCATTT	GCCTCAAGGA	TTGAAATTTT	TTTTTTTACT	120
TGTGTTTACA	GGTAGAATTC	TTTATTTAAA	AAGTCAGTTG	AATATCAAAA	CTATTTGATA	180
TTCTTCAGAC	TGGAATATTA	TTCTCTAGTG	TAGAAGAAAA	CATTTTCTGC	TTACAAAACA	240
AATAGTAAAT	ACTCTAAAAT	AGGGGTTGGC	AAACTTTTCT	TAAATAAAAG	GCCAGATGGT	300
AACTATTTTA	$\tt GGTTTTGTGG$	GCCATGTGTT	GATAACTATT	TTAGGTTTTG	TGGGCTACGT	360
ATGGGGTCAC	TCTCCCATTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTTTC	420

TGTGTGTG AGCGGCGCTC TCGAG

(2) INFORMATION FOR SEQ ID NO:878:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 586 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:878:	,
GAATTCGGCC AAAGAGCCGG AATTTGGCCC TCGAAGCCAA GAATTCGGCA CGAGGGGGTC TCCATTCCCC GAGAAGCCAG GGGCAGGGTG GGATGGGGAA GACCAGGAGC AGAGTCGAGC CTCACAGAAG CCAGCGCGG TCTCTGCTCA GCACCCCAGC CGGGGCTCTG GACCCAGGGT AACAGCCCCA GTTCATCCC ACCCCTCTCA GAGCCTCAAG AGGGGTAGCT CGGCTGCCGG AAGAGAGGGG TGCCCTATCC CTGGCAACC CTCCACGTAG CGTACCCCAG CACCTGCCAC CGCCTTTGCC ATTTCTTTGA GCTTGAAGTT AACTCTCTTA GAGTCTAACT TTGGTTCATT TCTGCACAGG TACAATAGAT GACTTTATTT GTTTAAACATG TTTAAATATAT ATACATACAT ATACATACAT TTGTCTGTAAA GAATTATGTT TAAACAGCT GCTGTAGAGT ACCTTTTTTT AAGTAAATCT TACAGTGGAG TATATTTTTT AAAGCACAAA ATTGGTGCCA AGACTGGGTG AGAATAGTAC ATTACCCCCT TATTATTTTG CGTCGGATTC CTCGAG	60 120 180 240 300 360 420 480 540 586
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 414 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:879:	
GAATTCGGCC AAAGAGCCGG AATTTGGCCC TCGAAGCCAA GAATTCGGCA CGAGGGGAAA ATCTTGTCCT AAAAATATAT GAGTTTGGGG GTAAGGGGT GGATAGCCAA GCAAAATCAG TAATTATTTT AAAATGAACA TATGAATTTT TATTTAACTTT TAGTTAAATA CAGATTTTAC AACGAGGTCA GCATAAGCCT AAATCTATAT AGAGGGCTAA CTCAGGCATT GTCTTGTTTA TTTGTAGACT GGATTAAAAA CAACCTGTCC TGTTTTGTCA GTTCCCAGCT TCTTCGTTTA GAATAAATTA GACCAAAAGA AGAAACGTGC TTGTCTCTGT ATACCCGCAG AATGAAGTTA CTGTTGTTAA AACCGGATTT TTTCATTTTA CTAGGTTCCG CTCTCCCCT CGAG	60 120 180 240 300 360 414
(2) INFORMATION FOR SEQ ID NO:880:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 402 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:880:	
GAATTCGGCC AAAGAGGCCG GAATTTGGCC TCGAAGCCAA GAATTCGGCA CGAGGGTAAT TTTAAAAATT TATGTATTTT CTAGCATTTG CCTCAAGGAT TGAAATTTTT TTTTTTACTT	60 120
384	

TCTTCAGACT ATAGTAAATA ACTATTTTAG	G GTAGAATTCT TTATTTAAAA AGTCAGTTGA ATATCAAAAA C GGAATATTAT TCTCTAGTGT AGAAGAAAAC ATTTTCTGCT A CTCTAAAATA GGGGTTGGCA AACTTTTCTT AAATAAAAG G GTTTTGTGGG CCATGTGTTG ATAACTATTT TAGGTTTTGT C CTCCTATTCT CTCTCTATCA CCTACCCTCG AG	TACAAAACAA CCAGATGGTA	180 240 300 360 402
(2) INFORM	NATION FOR SEQ ID NO:881:		
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 352 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	·	
(ii)	) MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:881:		
GTTTTTTTT TATTATAAAT TGTACTGTTA TCTTCTAGGT	AAAGAGGCCG GAATTTGGCC CTCGAAGCCA AGAATTCGGC TTTTTTTTTT TTTTTTCNNG NNAGGCTTTC CCTAGGTGAT AAATATCCAT TTTTCCCATA AAATATTGCT ATATGTTAGT CCTTTTTCAA CTCTATTGGT TCTGATAGCT TGTCAGTTGT AAATATTCT TACAAATAAT GAGATTTGCT CCTACTTTCC CTNNTCTTAC TGCACTGGCT AGGACACCAC TACCTTCTCG	TTTTAATTGC ATATTAATCT CTACCTTTCA AATTTATCTC	60 120 180 240 300 352
(2) INFORMA	ATION FOR SEQ ID NO:882:		
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 351 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: CDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:882:		
IGGTTTTCTT ACTATGTACT ACTAAAGGGA GAGTTTTCTG	TTTTTAACTT AAAAATÄGTT GTATTTÄTÄT TCCACAATTT ATAAACTTTC TACAGGATGT TTTTAAACAA ATTCTTCACA TGCGGAATTT CAGGGAAATA GTTCTGTGTA TTTTTAATAG TGGTAGGTGG TCACATGCAG TCCATGTGGG ATTCTAACAT ATGTGGACCA TCCCTTTGAT GCTGAAGGTA ATGCATCTGT TTGGATTACT GCTCTCTGCA TCTCCCTCTT TTCTGCTCGA	TTGTGTTTTG CTTAATTTGT GACATTTAGT TGAAAGAAGT	60 120 180 240 300 351
(2) INFORMA	ATION FOR SEQ ID NO:883:		
(i) <sup>.</sup> \$	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 548 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:883:		
GAAAAAGGTA	TTCATGGCAA GAAGGAGNCT TAGCATCAAA CTTTGGAAAG GAATGGACAA GTGACACTGT GGACAATGAA CACATGGGCC	GCCGTTCATC	60 120

TGAGGAGGAA	GAAGAGGGCT	GTGGCATACA	CACTGTGTAC	GTGGCCACCG	CAAAGGACGG	240
GTTNTGCAAC	CCTAGGACCG	ACCCCCACCA	CCCTTCCCCA	GCTCCTGACC	NTTCCCAGCC	300
CCCTCCAGGG	CCAATGCAGC	ACTAAATCCC	TCTCTCCTCC	AGCATTCCTG	TGTCTGTCTG	360
GCCCTAAATG	TATCCATGTG	GCTACTTCTC	CAGCCCCCTC	CTTCCCTNTC	TTCTGCCTGA	420
TAGAGGGAAG	AGGAAGAGGA	GGACGAACAG	AGATCCTGAA	ATTCTGACTT	GCTGCTATTC	480
CAGAACCCAG	CCTCCTGGGT	TTCCCCAGTC	CTCATTTTTC	CTCCCAATAC	CCACCCTTCT	540
CTCTCGAG						54 B

- (2) INFORMATION FOR SEQ ID NO:884:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 446 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

GAATTCGGCC	TTCATGGCCT	AAAAAATACA	AAAAATTAGC	CGGGCGTGTT	GGCGGGCGCC	60
TGTAGTCCCA	GCTACTTGGG	AGGCTGAGGC	AGGAGAATGG	CATGAACCTG	GGAGGCGGAG	120
CTTGCAGTGA	GCCGAGATCG	CGCCACTGCA	CTCCAACCTG	GGAGACACAG	CGAGACTCCG	180
TCTCCNAAAA	ААААААААА	AAAAAAACAC	ACTTGTCTTA	CAAAGACTAA	CAAAAGATAC	240
TAAAATAAAA	AACTTTACAG	CATCATTAGA	AAGCGAACAA	AATCCTAAGA	TAGATACATT	300
TATCTTTCTT	GTTTTAGAAC	TTTTTCTGTG	TAATGGAATG	GAAATGCTTA	ATCTTGTTTC	360
AATGTTTTCA	${\tt GTGTTTGTGC}$	TTTGTCAAAT	TGAGGTTGGA	TGTTAAAGCC	CTTACTACTG	420
TATTATACAA	AGCAGCGAAC	CTCGAG				446

- (2) INFORMATION FOR SEQ ID NO:885:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 344 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

GAATTCGGCC	TTCATGGCCT	AGCCGGCGCC	GCCGNGTCTT	CCCGGTCTCC	TTTCCCGGCC	60
${\tt GCACAGGGTT}$	TTATAGGATC	ACATTGACAA	AAGTACCATG	GAGTTTTATG	AGTCAGCATA	120
TTTTATTGTT	CTTATTCCTT	CAATAGTTAT	TACAGTAATT	TTCCTCTTCT	TCTGGCTTTT	180
CATGAAAGAA	ACATTATATG	ATGAAGTTCT	TGCAAAACAG	AAAAGAGAAC	AAAAGCTTAT	240
TCCTACCAAA	ACAGATAAAA	AGAAAGCAGA	AAAGAAAAAG	AATAAAAAGA	AAGAAATCCA	300
GAATGGAAAC	CTCCATGAAT	CCGACTCTGA	GAGTGTACCT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:886:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 388 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

GAATTCGGCC T	TTCATGGCCT	AAAAATCTAA	ATTAACTGAT	GAATAATTTA	AAACAGAATT	60
TCAACATTGA (						120
TTTAGCTAAA A	ATTTGTTTCA	AAGAAGTTGC	TTTTGTTTTT	AGTGTACCTT	GAGTTCAACA	180
CAGATGTGAA	TGCCCGCTTT	TTCCAGAAGG	GTTCTTGGGA	GAAAACACTG	GAGAAGTTCT	240
AAGCACTTTT T	TTTTTTTTT	TTTTTTTTT	TTTTTTTAGA	GATGGTTTCT	TACTCTGTTG	300
TTCAGGCTGG A	AGTGCAGTGT	TGCAATCATA	GCTCACTGCA	GCCTTGACCT	CCTGGCCTCA	360
AGTGATACCC (	CTGTCTCAGC	CTCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:887:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 364 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

GCCCCAGTCT AAGGCATTTA	AAATTAAACA	GCTCTTCAAC	GCCCCAAGTT	ATTTCATCAG	60
GCTAAGAACT TCTCCGAGAA	ACGCACAAGA	AGGCAGGCAA	ACAGGTGGGT	AGGTGAGAGG	120
TCACGGGGCT CCATCTGCAA	GCTCCATCTA	CAAGGCATCA	ATCTGCGTTG	TGGCATCAAC	180
GTTAAAATGT TCTACAGCTT	AGGGATCTTC	TTGAAGCAAG	GTTCCAAGCA	CAAAACTAGT	240
ATGACCGGAG GCTCAATTTA					300
GGGTGCCTGC TGGCATTCAT	GGGCTCTGGA	ACAAGCATTT	ATTCAAAGCT	GATGGCCCCT	360
CGAG					364

- (2) INFORMATION FOR SEQ ID NO:888:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 416 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

GCACCCCCAA	ATGCCAGCCT	CTCCTTTCTT	CCCATCCACC	AGTATACTGC	GGGGCCATTT	60
CTGGTCTTTG	TCCAACAGGA	AACCCATTTC	TGGTGGGATA	TGCCTTCCAG	TGCCACAGGG	120
CCACTCACCC	CATGCATCTC	TGTCCTGCCC	GTCAGTGCTG	GGACGGACAG	CAAGGGCAAG	180
CCCAGTGTCT	GGCGGATAGG	TGGGTGGGAA	CAGAGAGGGG	AGAATGCCGT	CCTAAGCTTC	240
TGCTTGGGGA	TCCCCCACAC	GACCTGGGTA	CTGCCTGGGA	AACCTGTCCT	AAGTAAAACT	300
ATGGACCTCG	CCTCGCCCAC	CGGCCTGCGA	AGCCAGCATC	TCCGTGAAGG	TGGATGGAAG	360
CGCCTTTGTC	CTCATTTTGA	GCTGCAAGCT	GGGTCAGCGG	CTCTGAAGCC	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:889:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 349 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

CM3 CCCC3 MC	******					
GIAGGCCATG	AAGGCCGAAT	GGAAAAAGTC	AGTTAAAGAG	GACTCAGTCC	CCACAGGTGC	60
					AAGTAGAATC	120
				CCTGAACCCA		180
					GACAAATGAC	240
				GAACCAACAG	GAGCACCACA	300
GAAGGGTAAA	GAGGGCTCCT	CGAAGGACAA	GAAGTCAGCA	GCTCTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:890:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 719 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGGATGCT	CTGGGTTTGC	TGTAGTCGTC	60
TGTTACTGGT	CNTGTTAGGA	GGAGGGCCAG	GGGGACCCCC	ACCTGGGGCA	GTCCCTTCTG	120
TCCCTTCAGC	AGGTGGCTGA	GCTGGAGCAG	ACATTTTTCT	GACAGAGAGA	GTGAGGGTCT	180
GTTCCTCTCC	GGAGGCTGCG	GCGAGACACC	CGGCGAGGGA	CGCTGCGGCT	GAAGTGGACG	240
GAACTGCCAA	GCTCCGCCTC	GCGCCGACTA	CCCCGCGGTC	TAGCTGCGCT	GGGGTTTCAC	300
CATGTTGGCC	AGGATGGTCT	CGATCTCTTG	ACCTTGTGAT	CTGCCTGCCT	CGGCCTCCCA	360
AAGTGCTGGA	ATTACAGGTA	TGAGCCACTG	TGCCTGACAC	CTGTCAAATT	ATTTTACTGT	420
GTTTATTTAC	CATGTTTCTT	TCACTGTGGG	GTCTCTGTCC	TTGCTGTTTT	GTTTTTCTTT	480
TAACTTCTTT	TGTTATTTAG	GAAGGTTTAT	ATTAATATTT	TAATTCTACA	TTGGATAATT	540
CCTATATCAA	AACTATTGTT	GACAATCAGT	TACAGATGGA	ACTTCGTCTA	CTCTTTCTCC	600
CCTTCTCACT	CCTGCTCTTT	CTCCCTTTCT	CACTCCAGCA	GTTGACTAGT	CTCATTGAAA	660
AAACAAATTG	GGGCCGGCCA	GGCATGATGG	CTCATGCCTG	TAATCCCAGA	CAACTCGAG	719

- (2) INFORMATION FOR SEQ ID NO:891:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 453 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

		AGATACTCCG				60
GCTCCAGCCT	CAGTTCAGCT	TTCCACACTG	CTTGCAGAAA	TTCCTTCATT	TATCTTGAGT	120
TTCTCCTCTC	ACTCCCATGG	TAGCTTTTCC	ATTCCCACTG	CCTCTTCTCA	CATTTCAGTA	180
GATGAGAATA	GAAGCCATAG	GAAGCAAACT	TCCTCAACCT	CCAGCCAACC	GCCGAGCGAT	240
		GGCACAAGCG				300
CCACAAGAAG	CGGAAGTATG	AGTTGGGGCG	CCCAGCTGCC	AACACCAAGA	TTGGCCCCCG	360
CCGCATCCAC	ACAGTCCGTG	TGCGGGGAGG	TAACAAGAAA	TACCGTGCCC	TGAGGTTGGA	420
CGTGGGGAAT	TTCTCCTGGG	GCTCAGACTC	GAG			453

- (2) INFORMATION FOR SEQ ID NO:892:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC	TTCATGGCCT	ACCAGCCTCT	GGGCTGAGGC	AAAGACCTCT	GAGGCCCCGT	60
CCACCCAGGA	CCCCTCCACC	CAGGCCTCCA	CTGCGTCCTC	CCCAGCCCCA	GAGGAGAATG	120
CTCCGTCTGA	AGGCCAGCGT	${\tt GTGTGGGGTC}$	AGGGACAGAG	CCCCAGGCCA	GAGAACTCTC	180
TGGAGCGGGA	GGAGATGGGT	CCCGTGCCAG	CGCACACGGA	TGCCTTCCAG	GACTGGGGGC	240
CTGGCAGCAT	GGCCCACGTC	TCTGTGGTCC	CTGTCTCCTC	AGAAGGGACC	CCCAGCAGGG	300
AGCCAGTGGC	TTCAGGCAGC	TGGACCCCTA	AGGCTGAGGA	ACCCCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:893:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 467 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

AACAGGAGAT GGACAAGCTO	AAGGAGCAAT	ATGATGCTGA	GTTGCAGGCC	CTGAGGGAGA	60
GTGTGGAAGA AGCAACCAAC	AATGTCGAGG	TCTTGGCGAG	CAGGAGCAAC	ACTTCAGAGC	120
AAGACCAGGC GGGGACTGA	ATGCGCGTGA	AGCTTCTGCA	GGAGGAGAAT	GAGAAGCTGC	180
AGGGAAGAAG CGAAGAGCTC	GAGCGGAGAG	TTGCTCAGCT	TCAAAGGCAG	ATCGAGGACC	240
TGAAAGGCGA TGAAGCCAAG	GCGAAGGAAA	CGCTGAAGAA	GTACGAGGGA	GAAATACGAC	300
AGTTAGAGGA GGCCCTTGTC	CACGCCAGAA	AGGAAGAAAA	AGAAGCTGTG	TCAGCCAGAA	360
GGGCCCTGGA GAATGAACTC	GAGGCTGCTC	AGGGAAATCT	GAGTCAGACT	ACCCAGGAGC	420
AGAAGCAGTT GTCTGAGAAG	CTCAAAGAGG	AGAGTGAGGC	GCTCGAG		467

- (2) INFORMATION FOR SEQ ID NO:894:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 315 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GAATTCGGGC	TTCATGGCCT	ACTCAGCTTT	CCTGGTCTCC	CATCTGAACT	GCTTCTTTGT	60
GCACCTCTTG	TTCTTTCTCT	TGGCTCCCAG	TCTTGATTCC	TGTGATCACT	CTTGCATCAC	120
TAATTGCACA	AGTGATTTCA	GGTGCAATTC	TGATTAGCCT	GCGTCCACAC	AGTGATCGAT	180
GATCCTATGT	GCCTAGAAAG	GACACTGTGT	GCTGCTCATG	ACCTGCAACA	GGAAAAAAGC	240
CATTTCTTGT	TAGCAGTGTA	AGAACCTTAG	AGCAAAGGAG	TTGACCTTCT	GATTGAATAT	300
AAGCACAACC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:895:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 302 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:895:

GGGCTTAGTT	AGGAGCTATG	GCTAAACATC	ATCCTGATTT	GATCTTTTGC	CGCAAGCAGG	60
CTGGTGTTGC	CATCGGAAGA	CTGTGTGAAA	AATGTGATGG	CAAGTGTGTG	ATTTGTGACT	120
CCTATGTGCG	TCCCTGCACT	CTGGTGCGCA	TATGTGATGA	GTGTAACTAT	GGATCTTACC	180
AGGGGCGCTG	TGTGATCTGT	GGAGGACCTG	GGGTCTCTGA	TGCCTATTAT	TGTAAGGAGT	240
GCACCATCCA	GGAGAAGGAC	AGAGATGGCT	GCCCAAAGAT	TGTCAATCTG	GAGGAACTCG	300
AG						302

- (2) INFORMATION FOR SEQ ID NO:896:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 473 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:896:

GAATTCGGCC	TTCATGGNCT	ANTCTCATTT	NAAATATATC	CTTACTGAAA	CATCTGGAAT	60
AACGTCTGAC	CAAATATCTG	GGTACAGTGA	TCCAGCCAAG	TTGAGACATG	AAATTAATCA	120
CCATGGCCTA	CATTTTTATC	TGTTTGGCTG	CAATTCTGTC	AAAGGCTTCT	GCTCTTCATA	180
ACATTTCACT	CACTAGCTCC	ATGAAGCCAT	ATGATACAAA	CCTTGCCTGT	GTAGCCTTCA	240
CTTTTTTCCA	AAAGAAGTCT	ATTAAATGCC	AATCAAGTAT	CTTCTCCTCC	AAGCTCAGTA	300
GCTCGGGCCT	TCAACAGCTG	TTCCCCATTC	CGATCCATCT	CCCTGAGCTA	CCCTGGCATT	360
CTTATCAGGA	CACTGGAGGA	ATCTATGTAT	GTGCCTCTAA	AGATTCAGCA	CCCAAACATG	420
ATAGAAATCA	CTGTGTTCAC	ACTGTATCTC	TATATCTGCC	CATCCCGCTC	GAG	473

- (2) INFORMATION FOR SEQ ID NO:897:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 594 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:897:

GCTCGAGTGA	AGTGGTATCT	CATTGTGGTT	TGGGTTTTAA	TTTTÄTAATA	TTTTAATTTT	60
TAAAATCAAA	AGAATATACT	GGGGCTGGGG	TGGTGGCTCA	AGCCTGTAAT	CCCAGCACCC	120
TGGGGGGCCA	AAGGGGGTGG	ACCACCTGAG	TTTATGAGTT	CAAGACCAGC	CTGGCCAACA	180
CGGTGAAACC	CCATCTCCAC	TAAACATACA	AAACTCAGCC	GGGTATGGTG	GCAGGCACCC	240
GTAATCCCAG	CCTCTCAGGA	GGCTGAAACA	GGAGAATCAC	CTGATCCGGG	AGGTGGAGGC	300
TGCCATGAGT	CAGAATCACG	TCACTGCACT	CCAGCCTGAG	AGGAGACCCG	TACAAAAAA	360
AAAAAAAAA	ATATATATAT	ATACACACAC	ACACACACAC	ACAAGGATTT	TAGATTTGAA	420
AATGATGTTT	TTTACTCATT	TCAAAATGTA	CTGTAACCTT	TCTTTGGTTC	TTACTGTTTT	480
CATTTAACTT	TCTCTGTTTT	CAAGAAAAAT	TGTCTTTATT	GACATTTGTA	AAAAAGAATG	540
TGTTTTGCCC	AGTTATTAAG	TATTTTATTT	TTATGCAATT	TCAGAACACT	CGAG	594

- (2) INFORMATION FOR SEQ ID NO:898:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 302 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:898:

			TTTTTTAAAG			60
			AGAGATTTGT			120
			ACCCTACAGT			180
			TGGACTGGCA			240
GAGGTGGTGT	GGGGAGGGTG	GGGAGGCAGC	GCGAGGGTGC	TCTCCACAGG	GTAGGTCTCG	300
AG						302

- (2) INFORMATION FOR SEQ ID NO:899:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 475 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

GCGGCCTTCA	TGGCCTAGTG	CTTGTCAGTT	TGGAAAGTCA	CAGGGAGTTT	ACCATTCTAT	60
AATTAGAGTA	GGAGGAAAAT	GAGAACCCAC	TGGTAGAAGA	AGAAGCAACA	GTCTTCTAGG	120
			TACTGTGCAT			180
AGAACATACG	GCAGAGATTT	GGGAACTCGC	ATGCCTGAAG	CCAGGTTATT	CTTATGTTCT	240
GTAACTATGT	TGCTCGCAGG	GCTGTTGTTG	TCAGAGTAGT	GAGTTGTGCC	CCAGACAAAT	300
GGGGTGCTGG	TCTGCTCCCA	CAAATCTTTA	TCCCAGTCTT	CATCGCAAGG	AGGGCACTGC	360
CAAGTGCTCT	CAGCCAGAGT	CTCTTGTCTA	AGGCTCCTGG	TTTGGTTGAC	AACATCTTGC	420
TCAATACAAC	TTCTGTCATC	ACAGCTTGAG	ATATGATGAC	TAATTTCAGC	TCGAG	475

- (2) INFORMATION FOR SEQ ID NO:900:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 507 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

GAATTCGGCC	TTCATGGCCT	ACAGCTGCCT	TTTTCTTTAA	AGGGGTTCTT	GTCTTCTGGA	60
			CGTTCTTCAA			120
GAACATTTAG	ACACTTGTTG	TCTCTGCAAC	TTCACTTCTT	TGCGAAGCTG	CTCAACTTCC	180
ATTTTCAGTT	TTTCCTTCTC	TGGCAAATCT	TCGATGTGAA	GGGCAGGCAT	TTTCGCCCCA	240
			AGCCGCTGGA			300
GTCCCGAAAC	AACTGAAGGC	CTGGCCCGCC	GCCCACCCGC	GCAGGATGTG	ACTGCAGCCC	360
TGCTGCGGTC	CCCAGCTCCC	CGAGGGCTTG	GCTTTCTCCG	GGACGCTTGT	CACGCCAGCG	420
TGCCCCAGCT	TCCTAGGACC	TGAGAACTCT	GCCTTTTCTC	AAGTCCCTGC	AACCCAGGAG	480
GCCTGCCCGG	GTGCTAGTAG	GCCATGA				507

(2) INFORMATION FOR SEQ ID NO:901:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 495 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA .
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

GAATTCGGCC	TTCATGGCCT	AGTTTGGATT	TTCATATTAG	GGATACTCAA	CTGGTATTAT	60
TATTCTGGCC	CCTGCAAATT	TTTCAGTAGG	TCCCCTAGTA	TGTCATGCCA	GGGACTATGN	120
GAGTTCCTGG	GAATAGCACT	GTAANACATT	CTTGAGTGGG	TCCTTGACTC	CATTGAGTTT	180
ATAATCTCGT	AGGAGGAAGG	CTATGAAGAA	TTCTAATAAA	GCAAAGCAAG	CAATCACAAC	240
AAACCTTCCT	CTTTAACTTA	TCAAAAATGG	AAACTTTGAA	GAGCTGCTCT	TTAATAAATC	300
ATTGGAAAGC	ACCAGGACCC	${\tt AGGTGTTTTG}$	ACTCAGCCTC	ATTTCAGACT	GAGATCTGAG	360
GCCATGATAA	CTCATGTGCC	TATATATGCT	GATAATCACC	ATTACCTATA	CCATTCTTTA	420
CATTCTCTCA	TCTACACAAT	CATCTTCAAC	TCTCTCTCAT	CCACTTCAGC	GATTGAATTC	480
TTTACCGGCC	TCGAG					495

- (2) INFORMATION FOR SEQ ID NO:902:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

GAATTCGGCC	AAAGAGGCCT	AGAATTCCAG	ACCTAGCTCA	ACCCATGCCT	CCTTTCCTTC	60
CTTCCCTCCT	TCCTTTCTTT	CTTTTTCCTT	TTCTCCTTCC	CTCCCTTCTC	CCTTTCTTCC	120
TTCTCTCCCT	CTTTCTCTTT	CTCCCTTCTT	CCTGCTCTTC	CTTCCTTCCT	CCCTCCCTCC	180
CCTCCCTTCT	TTCCTTTCCT	CCCTCCCTTC	CATTCTTTCC	TCCCCCACCC	CCCGTTTCTT	240
CTCTTTGGAG	AGATGTACAG	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:903:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 410 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

GAATTCGGCC	AAAGAGGCCT	AAATGAGAGC	TGAGTGAAGT	GGATGCCCCT	TATAAAAACA	60
TCAGATCTCG	TGAGAACTTA	CTATCACTAG	AATAGCATGG	GGGAACCACC	CCATGATTCA	120
GTTACCTGCC	CCCAGGTCTC	TGCCACCACA	CATGGGGATT	ATGGGAACTA	CAACTCAAGA	180
TGAGATTTGG	GTGGGGACAC	AGGCAAATTA	TATCAGCTGT	TGTGCTCATT	AGTTTGTATA	240
TCATCCTTGG	CTCCTTTAGC	ACTATAAGGG	CAGGATTGAG	TCCTTGCAAC	AGAAACCATT	300
CAGCCTGCAA	AGCTGAACCT	ATTTACTTTC	TGACCCTTTA	TGGAAAAGTT	TACTGATCTC	360
TGGACTAGAC	AGTTTTTTAA	AAATGACATC	TTATGACCGG	GATTCTCGAG		410

(2) INFORMATION FOR SEQ ID NO:904:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:904: GAATTCGGCC AAAGAGGCCT AGCCGAGACT CTGTCTCAAA AAAAAGAAAA AAAGCTGCTT 60 TGGGTCTTAT GAGGGAGGG ACTGGGAATC TAGGTGTTTC AAGCGCCCCA GGCGATTCTT 120 AAGGTCACAC AAGCTTGGGA GACACTTCAT TAAGCAAAAT CTTTTGGCCG TTTTGTTCTG 180 GTTGAGCCTC AGTGTCTATT CATTGAGTGG TCACCAAGAG TTTGGGGTGG ACTGATCATC 240 AGCATTTACA GGTTTGGAAA TTGAATTTAG TTTTACTACT CAGAGCTTAT TAGACTTGAG 300 CAGATTTAAA CGGAAGGACA CTCGAG 326 (2) INFORMATION FOR SEQ ID NO:905: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO:905: GAATTCGGCC AAAGAGGCCT AGGAACTGTT TTGACCCTGA AGGCTATTTA ATCCACTGTC CCCTACAAGG CCTCACAAGT GCTGGGGGAA AAAAAACAGC AATGAGGATG ATCCTGAGTT 120 AATGTGTATG CTCCGCAAGA GAGCTTGCCT ATACCTTGAT TATTTCATAA AATCACATGT 180 TAATACATTG CTTTCAGAAT GAAATACTGA CTTGATCTGA TAGGAGAAAA TGGTAATATT TCATAGTTGT TTTCCAAAGA CAAATTTAAA TGTTGTCTGT TATCTCCTTA CTTAGTTTAA 300 GAATTTAGTT TTGAACCCCA TTGACTTTGT CATTTGCAAT TTTAAAAATA TTTGGGACTG 360 GGCATGGTCG CTCACGCCTG TAATCCCAGC ACTTTGGGAG GCATCTCGAG 410 (2) INFORMATION FOR SEQ ID NO: 906: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 498 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:906: GAATTCGGCC AAAGAGGCCT ACGCTTCCCG GGTTCAAGCG ATTCTCCTGC CTCAGCCTTT TGAGTGGCTG GGACTACAGG TGGATGCCTC CATGCCTGGC TAATTTTTTG TATTTTAGTG GAGACAGGGT TTCACCGTGT TGCCCGGGCT GGTCTTGAAC TCGTGAGCTC GGGCAATCCA 180 CACTCCTTGG CCTCCCAAAG TGCTAGGATT ACAGGTGTGA GCCACTGCAC CCGGTCGAGG 240 TACAGTTTTG AAGTTCATGC AAATCTCATC ATTTGCTCTT CTGCAACAAA ACATTTTCTT 300 TCAACTTATT TTGCCTGTGT GAAGCTCAGT GCTTTAACTC ATATATGGAG TTATCTTCTT CCCTCAGACT GGAGACGTTG GTGAAATTGG GGCTAGACTG AAGATGTCTA AGGTGGCTTG 420

480

498

ATTGACAAAG GTCTCTCCTC ATCCCCAAAA TAAATAACAT TTTTTCATTT ATAATAGTAA

TACACCAGTC GACTCGAG

- (2) INFORMATION FOR SEQ ID NO:907:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCC	AAAGAGGCCT	AAACTGGTGC	TGGTTTCACA	TCACGACAGC	AACGGGATTC	60
TTTTGCTTTG	AAAATGTTGC	AGTCCACCTG	TCCAACTTGA	TCTTCCGGAC	ATTTGACTTG	120
TTTCTGGTTA	TCCACCATCT	CTTTGCCTTT	CTTGGGTTTC	TTGGCTGCTT	GGTCAATCTC	180
CAAGCTGGCC	ACTATCTAGC	TATGACCACG	TTGCTCCTGG	AGATGAGCAC	GCCCTTTACC	240
TGCGTTTCCT	GGATGCTCTT	AAAGGCGGGC	TGGTCCGAGT	CICTGTTTTG	GAAGCTCAAC	300
CAGTGGCTGA	TGATTCACAT	GTTTCACTGC	CGCATGGTTC	TAACCTACCA	CATGTGGTGG	360
GTGTGTTTCT	GGCACTGGGA	CGGCCTGGTC	AGCAGCCTGT	ATCTGCCTCA	TTTGACACTG	420
TTCCTTGTCG	GACTGGCTCT	GCTTACGCTA	ATCATTAATC	CATATTGGAC	CCAGACTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:908:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 764 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	AAAGAGGCCT	AGAAACAATG	GTTTTCAGAC	ACTGAAAGTT	CATAGTACAG	60
GACTGTGATC	TCTGCGAGAA	GGGGGAATAA	TGAGGTGAGT	CCAGTGATTG	CTCAGGCGAA	120
TGGCCTGGAG	GCAGTTTCTA	GGCAGCAAAG	CAGGGAGAGG	GAAGCCAGAG	ACCAGTGGTC	180
CTGCTGTGTT	GAGGAGATGG	AGATCAGTGT	CACCGGAGGC	CAAGGTGAGT	AAGTGAGAGG	240
AGAGGAGGCA	GCAGCACACA	GACAGAGAGT	GCTGTAGATC	TGCAGTGGGT	CCCCTGGAGT	300
CCTTGGTTGA	GTGAAGGTGT	TAGAAGAAAC	TACTTAAGCC	AAGAAATGAG	TAACTGGAAA	360
TTAGTAGAGC	AAATAATTTA	CAGATCATCT	ATGGGGCTGG	GAAAAGTTTG	TGTTTCCACT	420
AGCCAGAGTA	GAAATAACTC	ATAATGCATG	GGTCATCAGG	TGGAGTCCTC	CAACAGGTGT	480
TGCCTTAGTA	CTGAGGTCAA	ATTGTCCCTA	GACCAAAGGC	TTCTTTGGAC	TTCCCCTAAC	540
AAAGCTTAAA	GACAAGCCTT	GGAAGGATCA	AACTAATTTC	AAGAAACTTA	ACTGTGAATC	600
AGAATAAAAC	CCAATACCAT	TTATAGGAAT	ATAACAAAAT	CCATCAACAN	ACNACATAAC	660
ACTCATAATT	ACCAACATTC	AGTAAAAAAT	TACTGGAAAC	AGAGAAATAT	AAATTATGGC	720
CCATAATTAG	GAAAAAAGGG	TAATCATTAG	AGGTAGAACT	CGAG		764

- (2) INFORMATION FOR SEQ ID NO:909:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 157 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

GAATTCGGCC	AAAGAGGCCT	ACTAAGGACT	TGTTTCGGAA	GGAGCTGACT	GGCCAATCAC	60
AATTGCGAAG	ATGAAGGCTC	TGTGGGCCGT	GCTGTTGGTC	ACATTGCTGA	CAGGATGCCT	120
AGCCGAGGGA	GAGCCGGAGG	TGACAGATCA	GCTCGAG			157

- (2) INFORMATION FOR SEQ ID NO:910:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 487 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

GAATTCGCGG	CCGCGTCGAC	AGAATAGACC	TGGTTTGTGA	ATTATGGCCT	GGATTTCACT	60
TATACTCTCT	CTCCTGGCTC	TCAGCTCAGG	GGCCATTTCC	CAGGCTGTTG	TGACTCAGGA	120
ATCTGCACTC	ACCACATCAC	CTGGTGAAAC	AGTCACACTC	ACTTGTCGCT	CAAGTACTGG	180
GGCTGTTACA	ACTAGTAACT	ATGCCAACTG	GGTCCAAGAA	AAACCAGATC	ATTTATTCAC	240
TGGTCTAATA	${\tt GGTGGTACCA}$	ACAACCGAGC	TCCAGGTGTT	CCTGCCAGAT	TCTCAGGCTC	300
CCTGATTGGA	GACAAGGCTG	CCCTCACCAT	CACAGGGGCA	CAGACTGAGG	ATGAGGCAAT	360
ATATTTCTGT	GCTCTATGGT	ACAGCAACCA	TTGGGTGTTC	GGTGGAGGAA	CCAAACTGAC	420
TGTCCTAGGC	CAGCCCAAGT	CTTCGCCATC	AGTCACCCTG	TTTCCACCTT	CCTCTGAAGA	480
GCTCGAG						487

- (2) INFORMATION FOR SEQ ID NO:911:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 478 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

GAATTCGCGG	CCGCGTCGAC	AGTTACTGAG	CACACAGGAC	CTCACAATGG	GATGGAGCTA	60
TATCATCCTC	TTTTTGGTAG	CAACAGCTAC	AGGTGTCCAC	TCCCAGGTCC	AACTGCAGCA	120
GCCTGGGGCT	GAGCTGGTAA	AGCCTGGGGC	TTCAGTGAAG	TTGTCCTGCA	AGGCTTCTGG	180
CTACACTTTC	ACCAGCTACT	GGATGCACTG	GGTGAAGCAG	AGGCCTGGAC	AAGGCCTTGA	240
GTGGATTGGA	ATGATTCATC	CTAATAGTGG	TAGTACTAAC	TACAATGAGA	AGTTCAAGAG	300
CAAGGCCACA	CTGACTGTAG	ACAAATCCTC	CAGCACAGCC	TACATGCAAC	TCAGCAGCCT	360
GACATCTGAG	GACTCTGCGG	TCTATTACTG	TGCAAGGGAC	AGCTCAGGCT	ACGACTATGC	420
TATGGACTAC	TGGGGTCAAG	GAACCTCAGT	CACCGTCTCC	TCAGCCAAAA	CGCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:912:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 433 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

CGCCCTGACC ACCAT AGGCACCTAT GGTAT ATTTGATGGT GATGA TCCTGAGTTT GGCCA AGTAAAACAC AACTT	TCGAC CCAGGATGCC GCTCA GCCTCTGTGG AAGTG TATATCAGTC GTTGT TCTATGTGGA ATTGG CAAGCTTTGA GGGAG TCTTGACTAA TGTGT TCCCCCAAGTC	AGGTGAAGAC TCCTGGAGAC CTTGGATAAG CCCCCAAGGT GAGGTCAAAT	GACATTGAGG ATTGGCCAGT AAGGAGACTG GGACTGCAAA TCCACCCCAG	CCGACCACGT ACACATTTGA TCTGGATGCT ACATAGCTGT CTACCAATGA	60 120 180 240 300 360 420 433
(2) INFORMATION	FOR SEQ ID NO:913	3:			
(A) (B) (C)	NCE CHARACTERISTI LENGTH: 139 base TYPE: nucleic ac STRANDEDNESS: do TOPOLOGY: linear	e pairs cid ouble			
(ii) MOLEC	CULE TYPE: cDNA				
(xi) SEQUE	ENCE DESCRIPTION:	SEQ ID NO:	913:		
	TCGAC GCAAGATGGA TACCT GTGGGGACAT GAAG				60 120 139
(2) INFORMATION	FOR SEQ ID NO:914	l:			
(A) (B) (C)	NCE CHARACTERISTI LENGTH: 166 base TYPE: nucleic ac STRANDEDNESS: do TOPOLOGY: linear	e pairs cid ouble			
(ii) MOLE	CULE TYPE: cDNA				
(xi) SEQUI	ENCE DESCRIPTION:	SEQ ID NO:	914:		
TCCTTCTTGC TGTGG	TCGAC ATCATGGCTA CAATT CAGACCTCTG AGGAC TACATCCGTC	ATGCAGGTCC	CTATGGTGCC		
(2) INFORMATION	FOR SEQ ID NO:915	5:			
(A) (B) . (C)	NCE CHARACTERISTI LENGTH: 590 base TYPE: nucleic a STRANDEDNESS: de TOPOLOGY: linea	e pairs cid ouble			
(ii) MOLE	CULE TYPE: cDNA				
(xi) SEQU	ENCE DESCRIPTION:	SEQ ID NO:	915:		
CTATGTTCCC TGTGA GGGGGACCTT CTGCA CACTGCTGCT GATTC GTGGCAATGG ATCAC	TCGAC TTCTTGGGCA TGGAG ACCTTCGAAA TGGCA GTCATGGCCA AAGTT CTCAATCTGC TAGCT ATCGAGGACA CTAGA GCACAGGGGC	TCAATGATCC TCCACCTGAT AGGAGCAGCT AGCCCTTCTT	AGTGCCCAAG CCTGCTCACG CCAGATGCTA CTCGCTGCAG	AAGAGAAATG GCAGGTACTG GAGATGTGCT TGGGCACCCA	60 120 180 240 300 360

TCCATACCAG CCAGGAGCAA CTCCGTCAGC AGTTCAACAA CCTCACTCAA AATCCAGAGT TGTTCCAGAT TAAAGGTGAA CGAGGCTCTC CAGGTCCAAA AGGGGCCCCG GGTGCTCCTG GAATCCCCGG GCTGCCTGGG CCAGCTGCTG AGAAGGGAGA AAAGGGGGCT GCAGGTCGTG ATGGAACCCC AGGTGTCCAA GGACCCCAGG GCCCACCAGG AAAACTCGAG	420 480 540 590
(2) INFORMATION FOR SEQ ID NO:916:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 592 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:	
GAATTCGCGG CCGCGTCGAC GGAAGAGCAA TGAAAACATA TGCTCCTACA TTATTCATGT TTCTATGGCT GCAGCTGGAT GGGATGAGCC AAGGTGAGCA GGTGGAGCAG CTTCCTTCCA TCCTGAGAGT CCAGGAGGGA TCCNGTGCCA GCATCAACTG CACTTATGAG AACAGTGCCT CCAACTACTT CCCTTGGTAT AAGCAAGAAC CTGGAGAGAA TCCTAAGCTC ATCATTGACA TTCGTTCAAA TATGGAAAGA AAGCAGACCC AAGGACTCAT CGTTTTACTG GATAAGAAAG CCAAACGTTC TCCCTGCACA TCACAGACAC CCAGCCTGGA GACTCAGCCA TGTACTTCTG TGCTGCAAGT GAGAGCACCA ATACAGGCAA ATTAACCTTT GGGGATGGGA CCGTGCTCAC AGTGAAGCCA AACATCCAGA ACCCAGAACC TGCTGTGTAC CAGTTAAAAG ATCCTCGGTC TCAGGACAGC ACCCTCTGCC TGTTCACCGA CTTTGACTCC CAAATCAATG TGCCGAAAAC CATGGAATCT GGAACGTTCA TCACTGACAA AACTGTGCTG GACAATCTCG AG  (2) INFORMATION FOR SEQ ID NO:917:	60 120 180 240 300 360 420 480 540
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 166 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:	
GAATTCGCGG CCGCGTCGAC GAATGAGGTG CTCTCTTCAG TTCCTGGGGG TGCTTATGTT CTGGATCTCT GGAGTCAGTG GGGATATTGT GATAACCCAG GATGAACTCT CCAATCCTGT CACTTCTGGA GAATCAGTTT CCATCTCCTG CAGGTCTAGT AAGAGC	60 120 166
(2) INFORMATION FOR SEQ ID NO:918:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 200 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:	
GAATTCGCGG CCGCGTCGAC GTCTGAGAGG AACCCTTCTC TGAGGATGGA CACTTCTCAC ACTACAAAGT CCTGTTTGCT GATTCTTCTT GTGGCCCTAC TGTGTGCAGA AAGAGCTCAG GGACTGGAGT GTTACCAGTG CTATGGAGTC CCATTTGAGA CTTCTTGCCC ATCAATTACC	60 120 180

200

TGCCCCTACC CTATAGTGAG

(2) INFORMATION FOR SEQ ID NO:919:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 231 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:	
GAATTCGCGG CCGCGTCGAC CCAACCTTCC GGAAGCCTCC CCATCAGCAC CATGAACCCA AGTGCTGCCG TCATTTTCTG CCTCATCCTG CTGGGTCTGA GTGGGACTCA AGGGATCCCT CTCGCAAGGA CGGTCCGCTG CAACTGCATC CATATCGATG ACGGGCCAGT GAGAATGAGG GCCATAGGGA AGCTTGAAAT CATCCCTGCG AGCCTATCCT GCCCACGTGT T	60 120 180 231
(2) INFORMATION FOR SEQ ID NO:920:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 115 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:	
GAATTCGCGG CCGCGTCGAC GTTTTGTTAT TGTTACGAAG TAAATGATTC GTATGCTGTA CATAGCTGTT ATAGAAGTGG CGATTAGTGT AATTAGTAGG GCTCAGGCTC TCGAG  (2) INFORMATION FOR SEQ ID NO:921:	60 115
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 213 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:	
GTTGAATTCT AGAAATCAAA ATTAATTTGA CAAAGGAAAA GCAGATGCCG GAAACTTCTT CCCAGTCTGT CATACAATTC ACCACTGGCC AGGTGCTGAG AGAAGCATTA GGGAACAGTG TGGGTTGTGT CAGAGTTGGA CGGCTCCATC CCTTTGGCTT CATTATCTTC CTCCTCATGG AGATTCTAAA GCAACCCGTC GACGCGGCCG CGA	60 120 180 213
(2) INFORMATION FOR SEQ ID NO:922:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 504 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
398	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

GAATTCGGCC AAGAGG	CCTA CTTAGAAGCO	AAAGAAGGAG	ATTTGCACAG	GATAGAAATC	60
CCATTCAAAT TCCACA	TGCT GCATTCAGGG	CTGGTCCACG	GCCTGGCTTT	CTGGTTTGAC	120
GTTGCTTTCA TCGGCT	CCAT AATGACCGTG	TGGCTGTCCA	CAGCCCCGAC	AGAGCCCCTG	180
ACCCACTGGT ACCAGG	TGCG GTGCCTGTTC	CAGTCACCAC	TGTTCGCCAA	GGCAGGGGAC	240
ACGCTCTCAG GGACAT					300
GTGGCCCAGG TGGACC					360
TTCTTTAGAT ACACGG					420
TCGGAAAACA TGTGGA		TACAACCTCA	GCAGCGGGAT	GGCCGTGGCA	480
GGGATGCCGA CCACCA	GACT CGAG				504

- (2) INFORMATION FOR SEQ ID NO:923:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 119 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

GAATTCGGCC AAAGAGGCCT ACATTCATCA AGTCATCCAA CTTCTATAGT CAAAGCAGGA 60 TCATGTGGCG AAGCATATGC TCCACAAGGG TGGATAGCTT TTTTCATGGA ATTCTCGAG 119

- (2) INFORMATION FOR SEQ ID NO:924:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 706 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

${\tt GAATTCGGCC}$	AAAGAGGCCT	AAAGAGAGTG	GAGGAGGAGG	ACAAGATTGA	TACTATGAGA	60
GTTGGAGGAC	ATAATTCATG	GATCATAGCT	CCAGAAGTGA	AAAGGGAGGA	AATGTAGACA	120
	TTAGCCATTG					180
GAAGATAGCT	GGGGGAGTAT	AGACAAGTTG	TAAGAATGAA	GGAAGGAAGG	CAAGAGCAGA	240
CTTGTCGGAT	GAATTTTATT	TTCTCTATGA	AGTTTGAGAA	TTAAACTTTA	TGCTGAGAAG	300
GAGGGCAGGA	GAGACTGTAT	ATGGAATGTA	AGGTTTGGGA	TAACCAATGT	AAGTTTTGGG	360
AATGAGAAAG	CCACCTAGGG	ATGAGGAAAA	AATATTTAAA	ATTTTGTATC	CACTGAAAAT	420
TCTTCAACAG	TGTAAAATGA	AGCATGCTCA	ACTGGAAATG	GTCATATATC	TAAAAGAAAA	480
TGGATTTATT	TTGTTATTTT	TCTCTATATT	TGTAGTATTT	TACAGTAAGC	ATGTATTACC	540
	AAAAGTGTCA					600
	ATTGTTTCTT				TGTGGTGATG	660
TGTGTGATTC	AGAAGTCAGA	AGACTTAAGT	TCCGACACCC	CTCGAG		706

- (2) INFORMATION FOR SEQ ID NO:925:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 651 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

TATGATTCTT CACATCATGA TGGCTTAGGG TCCCAAAAAG AAAAGAGTAG AACTTGCAAT ACCTCTTAAG CCCTATGCCC AAGAACTCAT ACAGTGATAC TTCTGCCACC TTGTGTTAGT CAAAGCAAGT CACAAGGCCA GCCAGATTCA AAAGAATGGA AAAATAGACT CAATTTCCTG GTGAGAAGTA GCAAGGTCAC ATTGCAAAGG AGTCTGGACA TGGGAAGGAG TTACTCATTT GTGGCCTTTA TAATAATCTT CCACAAATGC CTGTAATTTG GGCACTGTGC TTAGTACTGG TGATAGAAGA TAAGTAGCTT ATTTCAGTAT CTTAATTTTG TTTTATATAT TTGATAATTT TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA.C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA							
TATGATTCTT CACATCATGA TGGCTTAGGG TCCCAAAAAG AAAAGAGTAG AACTTGCAAT ACCTCTTAAG CCCTATGCCC AAGAACTCAT ACAGTGATAC TTCTGCCACC TTGTGTTAGT CAAAGCAAGT CACAAGGCCA GCCAGATTCA AAAGAATGGA AAAATAGACT CAATTTCCTG GTGAGAAGTA GCAAGGTCAC ATTGCAAAGG AGTCTGGACA TGGGAAGGAG TTACTCATTT GTGGCCTTTA TAATAATCTT CCACAAATGC CTGTAATTTG GGCACTGTGC TTAGTACTGG TGATAGAAGA TAAGTAGCTT ATTTCAGTAT CTTAATTTTG TTTTATATAT TTGATAATTT TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA. C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	GAATTCGGCC	AAAGAGGCCT	AGGATTCAAA	TTATTCTGAC	AGACCTGTGT	GGCAGTTCAG	60
ACCTCTTAAG CCCTATGCCC AAGAACTCAT ACAGTGATAC TTCTGCCACC TTGTGTTAGT CAAAGCAAGT CACAAGGCCA GCCAGATTCA AAAGAATGGA AAAATAGACT CAATTTCCTG GTGAGAAGTA GCAAGGTCAC ATTGCAAAGG AGTCTGGACA TGGGAAGGAG TTACTCATTT GTGGCCTTTA TAATAATCTT CCACAAATGC CTGTAATTTG GGCACTGTGC TTAGTACTGG TGATAGAAGA TAAGTAGCTT ATTTCAGTAT CTTAATTTTG TTTTATATAT TTGATAATTT TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA. C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	GCTGATAGCT	GGAGTTTCTT	GTCTTTTTCT	ACATGGCCTT	TCATCTTCCA	AGAGTTAGAC	120
CAAAGCAAGT CACAAGGCCA GCCAGATTCA AAAGAATGGA AAAATAGACT CAATTTCCTG GTGAGAAGTA GCAAGGTCAC ATTGCAAAGG AGTCTGGACA TGGGAAGGAG TTACTCATTT GTGGCCTTTA TAATAATCTT CCACAAATGC CTGTAATTTG GGCACTGTGC TTAGTACTGG TGATAGAAGA TAAGTAGCTT ATTTCAGTAT CTTAATTTTG TTTTATATAT TTGATAATTT TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA. C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	TATGATTCTT	CACATCATGA	TGGCTTAGGG	TCCCAAAAAG	AAAAGAGTAG	AACTTGCAAT	180
GTGAGAAGTA GCAAGGTCAC ATTGCAAAGG AGTCTGGACA TGGGAAGGAG TTACTCATTT GTGGCCTTTA TAATAATCTT CCACAAATGC CTGTAATTTG GGCACTGTGC TTAGTACTGG TGATAGAAGA TAAGTAGCTT ATTTCAGTAT CTTAATTTTG TTTTATATAT TTGATAATTT TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA. C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	ACCTCTTAAG	CCCTATGCCC	AAGAACTCAT	ACAGTGATAC	TTCTGCCACC	TTGTGTTAGT	240
GTGGCCTTTA TAATAATCTT CCACAAATGC CTGTAATTTG GGCACTGTGC TTAGTACTGG TGATAGAAGA TAAGTAGCTT ATTTCAGTAT CTTAATTTTG TTTTATATAT TTGATAATTT TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA. C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	CAAAGCAAGT	CACAAGGCCA	GCCAGATTCA	AAAGAATGGA	AAAATAGACT	CAATTTCCTG	300
TGATAGAAGA TAAGTAGCTT ATTTCAGTAT CTTAATTTTG TTTTATATAT TTGATAATTT TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA.C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	GTGAGAAGTA	${\tt GCAAGGTCAC}$	ATTGCAAAGG	AGTCTGGACA	TGGGAAGGAG	TTACTCATTT	360
TATGATGCAG GTTCACTGTG CACTGGTATC AATCCCAGGG GAGGACTGTA AACACCTTGC CAATACTGTG TACCAGTA.C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	GTGGCCTTTA	TAATAATCTT	CCACAAATGC	CTGTAATTTG	GGCACTGTGC	TTAGTACTGG	420
CAATACTGTG TACCAGTA.C AATCCACTGG CATGAGTCTG GTGAGACAGA ACACACAATA	TGATAGAAGA	TAAGTAGCTT	ATTTCAGTAT	CTTAATTTTG	TTTTATATAT	TTGATAATTT	480
	TATGATGCAG	GTTCACTGTG	CACTGGTATC	AATCCCAGGG	GAGGACTGTA	AACACCTTGC	540
AGTTTAGGGA AGCAACTTTA TTACTCACAG ACAGGCAGCA AGGGACTCGA G	CAATACTGTG	TACCAGTA.C	AATCCACTGG	CATGAGTCTG	GTGAGACAGA	ACACACAATA	600
	AGTTTAGGGA	AGCAACTTTA	TTACTCACAG	ACAGGCAGCA	AGGGACTCGA	G	651

- (2) INFORMATION FOR SEQ ID NO:926:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 700 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

GAATTCGGCC	AAAGAGGCCT	AAAAAGATGA	AAGGACCAAT	CAAAGATTTA	ATTAAAGCTA	60
AAGGGAAAGA	TTTAGAGACA	GAGAATGAAG	AAAGAAATTC	TAAGTTGGTG	GTGGACAAAC	120
CAGAACAGAC	${\tt AGTGAAGACC}$	TTTCCACTGC	CAGCTGTTGG	TTTGGAAAGA	GCAGCTACTA	180
CAAAGGCAGA	TAAAGACATC	AAGAATCCAA	TCCAACCATC	CTTCAAAATG	ATAAAAATT	240
CTAAACCAAT	GACTACTTTC	CAAGAAGAAA	CCAAGGCTCA	GTTTTACGCA	TCAGAGAAAA	300
CCCTCCTAAA	AGAGAACTTG	CCAAAGATTT	GCCTAAATCA	GGAGAAAGTC	GATGTAATCC	360
TTCAGAAGCT	GGAGCGTCTT	TACTGGTTGG	CTCAATAGAA	CCTTCTTTGT	CAAATCAAGA	420
TAGAAAATAT	TCCTCAATTC	TACCTAATGA	TGTACAAACT	ACCTCTGGTG	ATCTCAAATT	480
GGACAAAATT	GATCCCCAAA	GACAGGAAAT	TCTAGTAAAA	TTACTAGATG	TGCCTACTGG	540
TGATTGTCAT	ATTTCTCCAA	AGAATGTCAG	TGATGGGGTT	AAAAGGGTAA	GAACATTATT	600
AAGCAATGAG	AGAGATTCCA	AAGGCAGGGA	TCACCTCTCA	GGAGTCCCTA	CTGATGTTAC	660
AGTTACTGAG	ACTCCAGAAA	AGAACACAGA	ATCCCTCGAG			700

- (2) INFORMATION FOR SEQ ID NO:927:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 378 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

GAATTCGGCC	AAAGAGGCCT	AGGGGTGGTG	GAGGCGTGGA	CCCAACGGTG	ACCGTCGGGA	60
TGGAGCAAGG	GCAAGGAGAG	GCTCTGGCCC	AGACACAGCT	TGGAAAAGCT	CATCTCCCTC	120
TGGGGTTTAA	AAACTCAAAG	CAAACGGAGC	AAGCCTGGCG	GCCCTGGGGA	TGGGGCAGGG	180

ACACACTTAA	ACTGTGATCT TCGACCTGGC GACACAGGAC AGCCACACAG AAGCACGCCA AGCTTTGCTC CAACTAAATC ATTTAGTTTC CCTTGAAGAA ATAACTGAAA CTGCTGACAT CTATGTCTGT AGCTCGATTT TACAGTCTGC TCTTTGTGAG CACTCGAG	240 300 360 378
(2) INFORMA	ATION FOR SEQ ID NO:928:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 426 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:928:	
ACTTTAAAAT AATATATTAT GGGCTTTCTA ACTGTGCTGG AGGGTTAAAC	AAAGAGGCCT AATATTCAC ATTTCTCTTT TCTAAAAGTG TAAATTTTC GAAGCAAGAA TTAAATAAAT AGAACAAATA CCATATATCA TCACAGAGTC GGTCCTGTTC TGACCAAGTG TTGCATTGTA TTTTGTGTTAC CAGAACTGCA TGGCTACATG GTCAGTGCAT GCTCAGACAG CTGTTAAAAT CAAAACCTTC GTCACCTGGT AACTACTGTC TATCTCACAA GTGCATTCTG CTGACATTCA TGGTTTCTAG TAAATACTGT GCTTTAAAGT AGTACATACT GTGAGCTGTG CCTGCTTGTC CTTGTGTCTG AAAATAAGGA GGAACACTCT CGCACCAAAT	60 120 180 240 300 360 420 426
(2) INFORMA	ATION FOR SEQ ID NO:929:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:929:	
AGGAGAGATT TACTTTTGAT TTATAGCCTG TCTTGGAACA	AAAGAGGCCT AGGTAAATGT TAGTGGAAAA TTTTATGAGT ATATGCTGAA AGTTCACATG AACTCAATAA TGTTCAAGAT AATGAAATGC TTAGAAAAGGT CCAGAAGTAT TTTTCAACAT ATTACTTCCT CCTATCATAT TTTATGCAGG AAAAGGAGAC ATTTTTTCG AAATCTTGG TCTATCCTAG CATACGCTTT GCAATTTCTT GTTTCGTTAT TGGGTCAATA ATGTATGGCT GTGTAACGCT ACGGGACAAC TCGAG	60 120 180 240 300 325
(2) INFORM	ATION FOR SEQ ID NO:930:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 406 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:930:	
	AAAGAGGCCT ATGGACACCC TGTGCCCCAA GCCGATGGCC CCACCCAGCA AGNTGCCCCC CTTCTCCGCA GAGCAGGCTC TCCTTTACGG GACTCTCCTC	60 120

TTCCCTCCCA	CCTGATGCGC ATCAGCAGCC ACG	GGCCTGG CCCTTGAAT	TTGTCTAACT	180
	CCTGGTGGCC TCATCCCACC CCA			240
CAACTTCTCC	CTGCACTCAG CTTATGAATA CGA	CGGCCCT CATTGCATC	CATGCAGAGAC	300
	GCTCAGCTCA GTGCTCAGCG TGG		TTCCCCCCGT	360
GTCCTGTCTG .	AGAAAACTGT GACACCATCA ACC	CAACTAA CTCGAG		406
(2) INFORMA	TION FOR SEQ ID NO:931:			
(3) 5	SEQUENCE CHARACTERISTICS:			
(#/ -	(A) LENGTH: 246 base page	airs		
	(B) TYPE: nucleic acid			
	(C) STRANDEDNESS: doub	le		
	(D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(*1)	SEQUENCE DESCRIPTION: SE	O TD NO-931		
, (XI)	SEQUENCE DESCRIPTION. SE	Q 10 NO.331.		
	TCATGGCCTA CCAGACTGTA AAC			60
	CTGTTATGTT CTCCAGTTTT AAA			120
	ATGAAGTCCT TGACTGTCAG AGT			180
	AGTCAGCCAA GGAGATGCTA AGT	ragigacc agagagaga	C TGTCACCGGA	240 246
CTCGAG				240
(2) INFORMA	TION FOR SEQ ID NO:932:			
(i) :	SEQUENCE CHARACTERISTICS:			
	(A) LENGTH: 278 base p	airs		
	(B) TYPE: nucleic acid			
	(C) STRANDEDNESS: doub	le		
	(D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			,
(xi)	SEQUENCE DESCRIPTION: SE	Q ID NO:932:		
	TTCATGGCCT ACTCCATTGT CAG			60
	TCCTTTGTCC ATGTGTGCTT TG			120
	AGCTCCTGAA GCAGCAGCAG CAG			180 240
	CTACCCCAGT GCCCCCATCA CC		T GGGGGCTGTG	278
CCAGCTCCAC	AGGCTCCACC CCCGCCCCAC AA	CICGAG		2,70
(2) INFORMA	TION FOR SEQ ID NO:933:			
(i)	SEQUENCE CHARACTERISTICS	•		
	(A) LENGTH: 421 base p	airs		
	(B) TYPE: nucleic acid	l		
	(C) STRANDEDNESS: doub	ole		
	(D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: S	EO ID NO:933:		
(71)	www.comercian multiplicate a to Using the Usin			
GAATTCGGCC	TTCATGGCCT ACGAGTGCGA CC	AGCCAGAT GAGCGCCC	G TCCTGGTGAA	60
	TACCTCTACT TCTCCATGAT CC			120
CACCGTGAGC	TGGTTCACAG AGCCACCCTC CA	AGGAGATG GTCAGCCA	CC TGACCTGGTT	180
	GACCCCGTGG TCCAGAAGGA AC			240
TACCCTCTCT	CAGAACGGGA TGCCAGAGGC CA	GCAGCAGC AGCAGCGT	CC AGTTCGAGAT	300

	AACACGTCTA AAACCCACAG CTGTC ATCCTGTGGC TCTGTGGAAT ACAGC		AGCTCCCGGC	360 420 421
(2) INFORMA	TION FOR SEQ ID NO:934:		-	
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 449 base pair  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	cs		
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ	ID NO:934:		
TTGCAAATTC AGACACCTGC ATAGCTCACT ATTTTGATGA ATAGCGGTGA GTCATTCTTC GTGAAACTCA (2) INFORMA	AAAGAGGCCT AAAATAGCAA AGATG TCCATCAAAG CCTTCAGAAA AGGAT TGACCCAAAA CTGAAAACTC TAAGT CTCTGGTAAC AGTGATGGCG GAGAA TAGCACAGAA GAAAGGTTTT ACAAG CGACTTCTTC ATTGGGAAAG TCAGA AGTTAAGGAA CAAAAACCAC TAGAA TGGGGATACA ACTCTCGAG TION FOR SEQ ID NO:935:	TCTGT AGTTTCCCTT CAAAC CAAAAAAAC GAATT TTGTGAAGAG CAGTC TTCCATGTCT CGGAC ACGAAAGAAG	GAGTCCCAGA AAAGGATCTG GAGAAGGAAT GAAGATAGTG GAAAGTAGTT GAAGATACAG	60 L20 L80 240 300 360 120
(i) S	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 421 base pair  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	rs		
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ	ID NO:935:		
CATTCTACTG AGTCATTTTT AAGTTCATTT TATTTATTCT TTTTGGAAAT	AAAGAGGCCT AAAAATAGTG ATTTT TAAGGAAAAC TTTCTTTTCT CCTGT CCAAGGAGAC CTAGTTCCTT TTTGT GAAGTTTTGA GTTCATTTTA CTATA GCTTAGGATT TGCAGAGATT TTTTT TTCTCAGCCA GCATAGTATC TGCAG TGTAGGACTT CATTCACAAG GATGT	ACTTA TTCATCGTCC GAGGA GTTGTTTTGA ATCTG CCTAGGTGTG GAACC TGTGGCTTGA ACTGT GTGTCTGTTC	CCCAGGAATC GTTCATTTTG ATTTTCTTTT TGTCCATCAC CATTTTCTCT TGGCTCTCGA	60 120 180 240 300 360 120
(2) INFORMA	TION FOR SEQ ID NO:936:			
(i) S	GEQUENCE CHARACTERISTICS:  (A) LENGTH: 648 base pair  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	rs		
(11)	MOLECITLE TYPE: CONA			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

60

ATAGAAATGT	CATAATTTCT	CCTTTATTCT	TGAATGATAG	TTTTGTGGGA	TATAGACTTG	120
CTGGATATAG	AATTACTGGA	TATAGAATTG	CCAGATATAA	AATTCTTGGT	TCAAAGTTTT	180
TTTTCTTTGA	GGACTTTGAA	TGTCATCCCA	CTGTCTTCTG	GCCTCCATAG	TTTCTCATAA	240
TAAATCAGCT	GTTAATCTTC	ATTAAGTTTC	CTCTGTACAC	GAAGAGTCAC	TTGTCTCTTG	300
CTGCTTTCAA	ATTTTTCTCA	TTTGCTTTGG	GTTTTCACAC	TTTAATTATA	TGCCTTTCTA	360
TGTGGATCTC	TTTGAGTTTA	TCCTGCTTGG	AGTTCATTGA	GCTTTTTGCA	TCTGTATATT	420
AATTTCTTTC	ATCAGATTTG	GAGATGTTTT	TGGCATTTAT	TTCCTCAAAG	TTCTTTCTGC	480
TTCTTTCTCT	CCTTCTCCTT	CTGGGTCACC	ACAATGCATA	TGTTGGTCTA	CTTGATGATG	540
TCTCACAGGT	TCCTTAGACT	CTGTTTACTT	TTCTTCATAT	TTTTTTTTTT	CTGTTTCTTA	600
AATTTGGATA	ATTTTGGTTG	TCTTATATTC	AAGTTTGCTG	ATCTCGAG		648

- (2) INFORMATION FOR SEQ ID NO:937:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 160 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GAATTCGGCC	AAAGAGGCCT	AGAGGATGGG	AAGCTTGGGG	AGAGAAGATA	CTGAAATGCT	60
AGAAACTGAG	CCAGTAGAGG	ATGGGAAGCT	TGGGGAGAGA	GGACATGAGG	AAGGATTTCT	120
GAACAACAGT	GGGGAGTTCC	TCTTTAACAA	GCAGCTCGAG			160

- (2) INFORMATION FOR SEQ ID NO:938:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 399 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

GAATTCGGCC	AAAGAGGCCT	AGAAAAACTC	AGGAAAGAAA	TTGCAGACTT	CGAACAACAG	60
AAAGCAAAAG	AATTAGCTCG	AATAGAAGAG	TTTAAAAAGG	AGGAGATGAG	GAAGCTACAA	120
AAGGAACGTA	AAGTTTTTGA	AAAGTATACT	ACAGCTGCAA	GAACTTTTCC	AGATAAAAAG	180
${\tt GAACGTGAAG}$	AAATACAGAC	TTTAAAACAG	CAAATAGCAG	ATTTACGGGA	AGATTTGAAA	240
AGAAAGGAGA	CCAAATGGTC	AAGTACACAC	AGCCGTCTCA	GAAGCCAGAT	ACAAATGTTA	300
GTCAGAGAGA	ACACAGACCT	CCGGGAAGAA	ATAAAAGTGA	TGGAAAGATT	CCGACTGGAT	360
GCCTGGAAGA	GAGCAGAAGC	CATAGAGAGC	AGCCTCGAG	•		399

- (2) INFORMATION FOR SEQ ID NO:939:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 519 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGGC	AAAGAGGCTA	GAAGCATCGA	AAGCGTTGGA	GAGGTGTTAC	CGGTAACGGC	60
GGCGAGAAGG	GTGTTCCCGA	ACTAGAGTGG	GGCATACATA	ATCTTGCTGC	TATGCTTCGA	120
AGCTGTAGTC	TGAATCAACC	${\tt TAAGTTTTAA}$	ACAGAAGGTG	AACCTCTGAG	ATAGAAAATC	180
AAGTATATTT	TAAAAGAAGG	GATGTGGGAT	CAAGGAGGAC	AGCCTTGGCA	GCAGTGGCCC	240
TTGAACCAGC	AACAATGGAT	GCAGTCATTC	CAGCACCAAC	AGGATCCAAG	CCAGATTGAT	300
TGGGCTGCAT	TGGCCCAAGC	TTGGATTGCC	CAAAGAGAAG	CTTCAGGACA	GCAAAGCATG	360
GTAGAACAAC	CACCAGGAAT	GATGCCAAAT	GGACAAGATA	TGTCTACAAT	GGAATCTGGT	420
CCAAACAATC	ATGGGAATTT	CCAAGGGGAT	TCAAACTTCA	ACAGAATGTG	GCAACCAGAA	480
TGGGGAATGC	ATCAGCAACC	CCCACACCCC	CCCCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:940:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

GAATTCGGCC AAAGAGGCCT A	AAGAAATTAT	ACCATTTTAT	GGAATGTCAA	GCTACATCAC	60
CCGAGAAGAC CAGTACAGCA A	AGCCTCCGCA	CAAAAAACTG	AAAGACCGCC	AGATCGATCG	120
CCAGAACCGC CTCAACAGCC C	CTCCTTCTTC	TATCTACAAA	AGCAGCTGCA	CAACAGTATA	180
CAATGGCTAT GGGAAGGGCC A	ATAGTGGTGG	AAGTGGCGGA	GGCGGCAGCG	GTAGTGGTCC	240
CGGAATTAAG AAAACAGAAG C	CGCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:941:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 535 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

${\tt GAATTCGGCC}$	AAAGAGGCCT	AAGCCTCGCC	TTACACTTAA	GTGCACCCGA	TCCTGCCTCT	60
${\tt GGCATCTCAC}$	AAACGTCACT	CCCTGGAACA	AATTTGTGAA	GGCCTCCAGA	CCACAGTGTC	120
CTCATCTGTA	AAATGGGGGT	AGTAGTAATC	CTTGCCTCAT	AAAGTTCTTG	GCAAGGATTA	180
GATGAGCGAG	CATGTGAGTT	TGGCCTCCGT	TTAAACACTC	CATAAAGTTT	CCTTTTAGGA	240
TAACAGCAGG	CCGTTTTAGA	ACCTTCCAGA	GGTTACTTAT	TCAGATATCC	TTAGGTGACG	300
ATTGGGAAGC	TGCCGTTTCT	TGAGAGCCTC	CTGGGTGACA	GATGGAGAGT	GGCCCTGGCG	360
TGACCCTTGA	CCCTATCCTT	GAGGCTTTCC	TGCCCGTCTC	CTGCCTCGAA	TGTGCTCCGC	420
AGCACATGGA	TCAGGATGGG	GAAGGGGCTG	TGTCACTGGA	TACCTTCGGC	CCCTGCCCAC	480
GTCTAGGGCC	TGTGAAAACG	AGGAGGGACA	GCAAAGAAAT	GGGGAAAGGC	TCGAG	535

- (2) INFORMATION FOR SEQ ID NO:942:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 316 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC	AAAGAGGCCT	AAAATTGTTA	ATTCTAGTCA	CCCTGCAGTG	CTATAGAACA	60
CTGGAACTTA	TTCCTCCTAT	ATCACCGTAT	TTTTGTATCT	ATTAACAAAC	CTCTCCATAT	120
CCTCCCTCCC	TCCTACCCTT	CCCAACCTTT	GGTAATCACT	ATTCTCCTCT	CTACTTCTAT	180
GAGATCAATG	TCTTTATTTA	CTCGAAGTAC	TCTTAAAAGT	TTAGGACTTA	AGTATTTGAA	240
GAAATTCACT	TGCTTTTTGT	TTTTATTCTA	CTCAATACTT	TTTAATATAA	AGATTTACAG	300
TCCCCCCTTA	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:943:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 363 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

GAATTCGGCC	AAAGAGGCCT	ACAAACTCAA	GATGCCCGAG	TGGATTGGAG	GCGAGAGCGA	60
GCTCAGGAAG	TTTCTAAAAC	ATCATTTGCG	AGGAAAGAAC	TGTGAACTCC	TGCTGGTGGT	120
ACCAGAAGAG	GTAGAGGCTC	ATCAGAGTTG	GAGGACCGAT	GTGTAACAGT	TCTGCCCAAC	180
CTCCCTCTCG	CCTCAGCCCC	TTCAGTCCTC	TGTGACGTGC	TGTGGCCTCT	ACAGTGGGTC	240
TGCCCTTGCC	ACTTCCCCAA	ACATCTCATC	AAGTTTTTCC	CCTTCAGATC	TGACAGTGCA	300
ATAGGACAGA	CGTGTGGACT	GTTATAAGAA	CTACTCAGTG	TTTTGTTCCT	GGGCAAACTC	360
GAG						363

- (2) INFORMATION FOR SEQ ID NO:944:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

GAATTCGGCC	AAAGAGGCCT	ACTCTGACAG	TGTTTCTGAC	CTTTAGCATT	TCTTTTTGAT	60
TCTTTCTTAG	AATTCTCATC	TTCTGCTTAT	ATACCTGTCT	ATTCTTGCAT	GCTGTCTACG	120
TTTCCCATGA	GAGTCCTTAG	CACATTAATC	ATGGTTGTTT	TACATTCACA	GTCTGGTAAT	180
TCCAGCATCC	CTGCCACATC	TGAATCTAGT	TCTGATGCTT	GCCCTGTCTC	TTCAAACTCT	240
GTTTTTTTGC	CTTATAATCT	TTTGTTGAAA	GCCGAACATG	ATTCCTGTAC	TGGCTCTTCT	300
GGAGGCTTCT	GCCCTGTTCT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:945:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 712 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

GAATTCGGCC	AAAGAGGCCT	ACAGATGACT	TCATTTCTCT	TGGATTCCAC	TTTCTCACGT	60
GTCAGAATGG	GAGAGGAAGG	GAGGTGTTGG	GATAAGTTTC	AGTTCCACTG	TTTGTACTTC	120
TCGTCTGGCT	AACACCCATG	TGGCAAATAG	GTTTCATCAT	TTGTTTCAGC	TTAGATTTGT	180
TGACAGCGGT	TTCCTGGAGT	GCTGTCTTGA	GAACGATTCT	GAGGAGGCTC	AGCAAGAAAG	240
AGTGTTTCAG	TTGATTGGGT	GTGTCTGTCA	TGGAGAAGGA	AGTAAGGAGT	GGGCAGTGCT	300
AGCAAAATTC	CCGGGGCACT	TCTGTCCATT	ATCTCAATAC	CTGGGGTTGA	CATTTCCTGT	360
CTCAGATCAG	GAGTCCTGAC	TACCCTGCCT	CTGACCACTC	GAACTGAGTG	CTGCTTAGCT	420
GTATCGTAGA	CACCGCCTGT	TTGTGAACAG	ACACCCTGCT	TCTTGATAAC	ACAAAGGCCA	480
GCAGGGTCCA	CTGCTGTGTG	GAATGGCCTT	CGGTCATTTC	TGCCCAGAGC	ATAGAGGTCA	540
TTTTCACTAA	TAACATAACT	CTCCTTTTGA	TTGAAAGTGT	TAAAATGTTC	CTCCTAAAAG	600
CACTTATTTT	TTAGGCTCGT	TCTTCAGATT	TGCCCCATAT	CCTAAGCAAA	ATGCCTTCAA	660
TATGAAGTGG	ATATTGCTTG	ACCGTAGGGA	GCTTGTCCAT	ACTGTACTCG	AG	712

- (2) INFORMATION FOR SEQ ID NO:946:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCGGCC	TTCATGGCCT	AGTCTTGAAG	GATAAGACTT	GCCCAAGTGG	ATAAGGGGCG	60
AAAGGCATCC	CAAGAGGAGA	CAGTAACGTG	TGTATAAATG	AACGAAGGCG	TGAAATAGGA	120
TGGAGTGTTT	TGAGGAACCA	CAAGTAGCCT	TCTCTGAGTA	AGAGCATAGG	TTTGTGAGGA	180
GGACCTAGTG	TTGTTTGAAA	AAAGAGAGTG	ATCAATGGAA	GATGAGATAT	CAAGACAGGA	240
GAACCAAGGA	AGAAAAAGCA	GAGGACAGCT	GGAATGAATC	AAACCGAAGA	ACCAGGATCC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:947:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 321 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

${\tt GGGTTTTGTT}$	AATGGAAAGT	TTAAGTAAAT	TATATTGTAA	TAAAAAGGTA	GATAAACCAT	60
TGTACAACAG	TATTCTAGGC	CGCCAACAAA	AGTGTGACAG	ACACACTAAA	AGCCCTCCAA	120
CTTTAACTTG	TAACGTAGCT	TCATTCTCAA	AGCTGACTCC	TTTTTTTTCT	TTTTCCTTTT	180
CTTGAGTGTA	GTACAGTTAA	AATTTCAAAC	AGCTCCTTGA	CACTGCTTTT	CATGTTCAAA	240
CCAGCCATTT	TGTTGTACTT	TGGTAAAGGA	CCTCTTCCCC	TTCCTCCCCT	ACACATACAG	300
ATACACCCAC	CATAACTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:948:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 312 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

GAATTCGGCC TTCATGGCCT ACAAAAGGCA ACAAACAAGA TTAACATGGA ATTATAAAAA	60
TCACTCAATC CAAAATAAGG CAGAAGAAGT GGAAAAGGGA GATGAAGATC AGATGGAACA	120
AAGAATATTA CTAGAAATGA CTATGTTTTA TAATGCAAAA TAGTTCAGTA CAGGAGAAAG	180
ATACAATAAT TTGAGTGCAT ATGAACTTAA AAGAGAATTT CAAAATATAT GAAGCAAAAA	240
TTGACAGAAC CCAAAAGGCA ACAAACAAGA TTAACATGGA ATTATAAAAA TCACTCAATC	300
CAATATCTCG AG	312

- (2) INFORMATION FOR SEQ ID NO:949:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

GAATTCGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCCGGGA	GCCTCAAGAA	AAATTAGCAG	60
		CTATTTAGGG				120
AAAAATTCCA	TGTCTTCAAA	AATAATTCTT	CCCTCTCAAT	CTCTCTGAAT	ATCTCATAAĠ	180
AGTATTCAGG	CCACAGAAAT	AACTACCATT	TAGCCACTCA	GAGGCTTATA	GTAGTTCTAC	240
TAACTTTAAC	ATTTGGCAAC	CAAAATTACT	CTAAGAATCA	TCACCCTCGA	G	291

- (2) INFORMATION FOR SEQ ID NO:950:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 240 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GAATTCGGCC	TTCATGGCCT	AGATGGGCAT	TCTGTTTATC	TTACTAGTAG	TACGCAGGGT	60
ATGTTGAAAT	CTCCAACTGT	GATGGTGGAC	CTGTCAACTT	CTCCCTGTGG	TTTTATCAGT	120
TTTTCCTGGG	TATTTTGAGG	CTATTCTGAT	AGGTACATAA	AATACAAAAA	TTGCTATATC	180
CTCCTAATTA	ACACTTATTA	TCAAATTGTT	ACTAATGCTT	TCTGTTCCTA	GGCCATGAAG	240

- (2) INFORMATION FOR SEQ ID NO:951:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 404 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GAATTCGGCC	TTCATGGGCT	AGATCTGAGC	TCACTGCAAC	CTCTGCCTCC	AGGGTGCAAG	60
CCATTCTCCT	GCCTCAGCTT	CCCAAGTAGC	TGAGACTACA	GGCGTGTGCC	ACCACGTTGG	120
CTAATTTTTG	TATTTTTAGT	AGCTTTTTTT	TTTAAACCCT	GAGTGTCAGG	TGTGAGGTAG	180
TAGAAGAAAG	GTAGTGTTGT	TGACAGCTTG	TGAGTACTTA	ACTAATTCTT	GTTGCATTCA	240
CTATAATATG	GTAGTTGTGT	ATACATTTAT	AGGCAATTAG	GAATAGGGAA	CAGAATCAGC	300
AGATACTAAC	GGAGTTAGAG	ATGTTTGCTG	AAGTCATGGA	AAGCCATCAT	TACTTTTTTC	360
TTCCTTCCTC	ATAAGGCCTT	AGTGGGTGTG	GCGTTCAGCT	CGAG		404

- (2) INFORMATION FOR SEQ ID NO:952:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 382 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

GAATTGGCCT TCATGGCCTA	GAAAAATÇAT	GTGGGAAAAC	CACTGCTGAA	AATGGATTTA	60
AATTCAGAAC AGGCGGAACA	ACTGGAAAGA	ATCAATGATG	CTCTTTCCTG	TGAATATGAG	120
TGCCGCCGAC GAATGTTAAT	GAAACGATTA	GATGTGACTG	TACAGTCCTT	TGGATGGTCT	180
GATAGAGCAA AGGTAAAAAC	AGATGATATA	GCAAGAATTT	ATCAGCCTAA	GCGTTATGCT	240
TTGTCACCCA AGACAACGAT	TACAATGGCA	CATCTACTTG	CTGCTCGTGA	AGATCTATCC	300
AAGATCATTA GGACAAGTAG	TGGCACCAGC	CGGGAGAAGA	CCGCATGTGC	CATTAATAAG	360
GTGCTGATGG GAAGGGCTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:953:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCGGCC TTCATGGCCT	AGTCCCTCTT	CCACTGCATT	TCGGCTTCAT	ACATGCACAT	60
GATGTCCTCC TCCTTGCACT	CAGTGATGTC	TGGCACGCGG	CGGTACTGCC	GGTGGTAGTA	120
GTAATACCTG TTCTTTGCGT	GCTGCCGCTC	TATAAATTCT	CTCACGAGGG	TCACGGGTCG	180
GTCCACGATG AGGTCGAACG	CTTTCATCAT	GTAGACGATG	GGATTGGGCT	GCACCGGCGT	240
GCGGCGCGG GGCTCAGGCT	CGCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:954:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 260 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

TGATTTTTT TTCTTAAACG TGTCTTCATT GGCTCCCAGA TTTGCCGTAG AAACCAAGCA AACTGGGTGC TAAAACAGAA AGGCCCATAG ATTGTACTTT TTGAGCTGTT TGAATTTGTA	180 240
TACCATATGC ACAACTCGAG	260
(2) INFORMATION FOR SEQ ID NO:955:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 129 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:	
GAATTCGGCC TTCATGGCCT AATCCGAGTG TTTCGCGCAC GTCCTAAGCT GACAGTCCCT CTGGACAGAG TCCCTGGAGT GGAGTCACTG CTCCTTGTCT TTTTTTCATA ACATACACTC ACCCGTATG	60 120 129
(2) INFORMATION FOR SEQ ID NO:956:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 404 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:	
GGCTAAACAT GGAAATGAAA GACTGATACT TGCTACCACA AAAANANACT TAAGCACATA GATCATAGAC AGTATAAAGC AATTAGACAA TGAAGTCTAC AAAACAACCA GTTAACAACA CAATGAGAGT ATCAAAATCT TACATGTCAA TACTAACCAT GAATATAAAT GATCTAAGCC CCCCACTTAA AAAGCATAGA GTGGCAAACT GGATAAAGAG ATAAGACCCA ACTGTCTGCT GCCTTTGAGA GACCCATCTT GCATGTAGTG ACACCCACAA GCTGAAAGTA ATGAGATGGA GAAAGATCTA TCATGCAAAA GGAAAACAAA AAAGAGCAAG TATCACTATT CTTATATCAG ATAAGACAGA TTTTAAACCA ACAACTATCA AGAAGAACCT CGAG	60 120 180 240 300 360 404
(2) INFORMATION FOR SEQ ID NO:957:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 283 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:	
GAATTCGGCC TTCATGGCCT AGACTCTCTT TATACAATTC ATCAAGGTTA AACAAAACAT AAAATTCCCT TAAAAATAGG GTAATAAAAT AGATGAAATT TGTATCACTC AATTTGGTGA TACTAGTAAA AACTATAGTT CATATTTATA TACAAATAAT ACAGTCTGTA AAAACAGTCT TAGAATTTAA ATAAGCTATC TAAACGTGTT AAAATTTTAA ATCAGGACCT GATTTGTTTT GCTTTCCATT AAATGTCACA TTGAATTCTA GACCTGCCTC GAG	60 120 180 240 283

(2)	INFORMATION	FOR	SEO	TD	NO - 958 -
1 4 1	INFORMATION	LOK	SEU	עג	NO:330:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

CTCGAGGACC	TGGTCGTGAC	CAACTATAAG	ATGGGGGGC	GACATTGCCA	ATGGGGTACT	6	0
TCGGTCCTTG	GTGGACGCAT	CTAGCTCAGG	TGTGTCAGTA	$\mathtt{CTGAGCCTGT}$	GTGAGAAAGG	12	0
TGATGCCGTG	ATTATGCAAG	AAACAGGGAA	AATCTTCAAG	AAAGAAAAAG	AGATGAAGAA	18	0
ACGTATTGCT	TTTCCCACCA	GCATTTTGGT	AAATAACTGT	${\tt GTATGTCACT}$	TCTCCCCTTT	24	0
GAAGAGAGAC	CAGGATTATA	TTCTCAAGGA	AGGTGACTTG	GTAAAAATTA	GGCCTCTTTG	. 30	0
GCCGAATTC						30	9

- (2) INFORMATION FOR SEQ ID NO:959:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 149 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGGACTAC	TGCAAGTGCT	60
TAAAGGCATT	ATTTCATAGA	CCTTACAACT	ACCCATATAA	CATTATTATC	TTCATTTTAC	120
AAATGAGGAT	AATAATGTTA	TATCTCGAG				149

- (2) INFORMATION FOR SEQ ID NO:960:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 455 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
    - (2)
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCGGCC	AAAGAGGCCT	ACACCGTAAT	ACTATAATAC	TATATAATCT	GTTTGTTAAT	60
TTTCTGAGAA	TAATAACTCA	ATGGAGTAAC	TCTTTAATAG	GCATCTTTTC	CTTATAAAAA	120
ATATTGTAGA	TTGGCTCTCT	GCAAGCTAAT	TTCTTTTATA	TGGTTAATAT	TTTAGTGTAC	180
ATTAAGAGCT	TAGAGTTCTT	TTTGTAATCA	AGCTTGCTAC	AGAAGCTGTG	CTTTATTTAT	240
TTCATAGTAA	TTTCCTCTAG	TGGGTCATTG	TATAAACCCT	GATCATTTTT	GTATGTCTAT	300
TCCTTTTCTT	GCGAAGTGGG	CAGCTTGTTT	AGCCATGGTG	TTTTGGCTTC	AATAGTGAGG	360
TCTCTATTTG	GGAATCTCTG	AATTTCACAG	GAATGAGTAG	AACTATATTT	AACAATGAAA	420
AAAATAGTAT	TAGATTTTAG	GGCAGCTGGC	TCGAG			455

- (2) INFORMATION FOR SEQ ID NO:961:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCGGCC	AAAGAGGCCT	ACCCTGTCTT	TATGCTCCAA	TGCTTCTTTC	TCCAGATATG	60
AAAGGAGATG	CTCTCTATCA	AATGGCCCTG	TGGTGGACTT	TGATGTCTGG	TTCTTCTGCC	120
GGAACCCTGC	TGGCTTTTTG	CTGTAGCTCC	ACATTCCTGT	GCATTGAGGG	GTTAACATTA	180
GGCTGGGAAG	ATGACAAAAC	TCTCGAG				207

- (2) INFORMATION FOR SEQ ID NO:962:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 247 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC	AAAGAGGCCT	ACTGTAGTAT	TTAAATATCT	GTTACAGGTT	TCCAAGGTGG	60
ACTTGAACAG	ATGGCCTTAT	ATTACCAAAA	CTTTTATATT	CTAGTTGTTT	TTGTACTTTT	120
TTTGCATACA	AGCCGAACGT	TTGTGCTTCC	CGTGCATGCA	GTCAAAGACT	CAGCACAGGT	180
TTTAGAGGAA	ATAGTCAAAC	ATGAACTAGG	AAGCCAGGTG	AGTCTCCTTT	CTCCAGTGGA	240
TCTCGAG						247

- (2) INFORMATION FOR SEQ ID NO:963:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 472 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC	AAAGAGGCCT	ACAAGAACAT	GAAACATCTG	TGGTTCTTCC	TTCTCCTGGT	60
GGCAGCTCCC	AGATGGGTCC	TGTCCCAGGT	GCAGCTGCAG	GAGTCGGGCC	CAGGACTGGT	120
GAAGCCTTCG	GAGACCCTGT	CCCTCACCTG	CGCTGTCTCT	GGTGGCTCCA	TGAATAGTCA	180
CTACTGGAGC	TGGGTCCGGC	AGCCCCCAGG	GAAGGGACTG	GAGTGGATTG	GATATATCTC	240
TGACAGGGGG	AGCACCAACT	ACAACCCCTC	CCTCAGGAGT	CAACTCACCA	TATCACTAGA	300
AACGTCCAAG	AACCAGTTCT	CCCTGAATTT	GTTCTCCGTG	ACCGCTGCGG	ACACCGCCGT	360
ATATTACTGT	TCTCGTGGGA	CATCCCCCCC	CCCCTCCTAC	TACTACTCCA	TGGACGTCTG	420
GGGCAAGGGG	ACCACGGTCA	CCGTCTCCTC	AGGGAGTGCA	TCCACCCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:964:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 303 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GCTCGGCTCG	CTGCAACCTC	TGCCTCCCAG	GTTCGAGCGA	TCTTCCTGCC	TCGGTCTCCC	60
AGGTAGCTGG	GACTACTGGC	GTGCGCGACC	ACGCCCAGCT	AATTTTTTGT	ATTTTTAGTG	120
GAGACGGGGT	TTCACCATGT	TGGCCAGGAT	GGTCTCAATC	TCTTGACCGC	GTGATCTGCC	180
TGCCTCGGCC	TCCCAAAGTG	CTGGGATTAC	AGGCTTGAGC	CACCGCATCC	AGCCAACATT	240
TTTCAAATAG	AAAATCTGAA	GCTAAAATCA	CCCCTAAAGG	ACAAATAACA	GCACTATCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:965:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 281 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTCGGCC	TTCATGGCCT	ACTAGATTAT	GGATTTTTTT	ATTTCAATGG	AAGTGAAGTT	60
CAAAGATGCC	AGAGTGGTAC	AGTTCGAACA	AACTGCTTGG	ATTGTCTTGA	TAGAACAAAT	120
AGTGTGCAGG	${\tt CATTTCTTGG}$	CTTAGAGATG	CTAGCTAAAC	AGTTGGAAGC	TCTTGGTTTA	180
GCTGAAAAGC	CTCAGTTGGT	GACTCGCTTT	CAAGAAGTTT	TTCGGTCAAT	GTGGTCCGTG	240
AATGGTGATT	CAATCAGTAA	GATATATGCA	GGAAACTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:966:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 454 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCGGCC T	TCATGGCCT	AGACGTGATG	TGTTGAGAGA	AGAATGTTCT	AGGCAGAGGC	60
AACAGCAGAT G	CAAAGGTCT	GAAGGGGAGA	CAGACCGAGC	TAGAAAAGCA	TGGCACATCA	120
GTGATCTAAG T	TCGTGTGGT	TTCCTAAGGT	TGGAACCTAG	GGTGCAAACT	GAGGATGGGC	180
AGATGAGGTG G	AAGAGGAAG	AGCAGACCCA	GGTCACAAAG	ATCTTTTGTG	CTAAGGATTT	240
TTAAGCAGGT A	GGAGGAGAG	AGAATATGAG	CCTTGGGATT	TGAACTGCTG	TGGGTGTACA	300
GAAAAAGAGA A	ACTCAACGA	GAGGTTTAGG	TTTAGGGACG	TGGTAGGCTT	TTGCAGTAAG	360
GGACAAGGAC A	GAAGGCTCA	TCTGAGGATG	GGAGGGACAC	TTTAGAGGCA	AATCCATAGG	420
ATGCAGTGGC T	GAACAGAAA	AGGTGAATCT	CGAG			454

- (2) INFORMATION FOR SEQ ID NO:967:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 322 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC TT	CATGGCCT AGTC	ATTTAA TTTAACTT	AG CAAAACTCÇA	ATAGTGTAAG	60
TTAACAGATT T	TGGAAACTG GTTT	TAAGTA GATGTATI	AT AACATAAAAC	AAAGCTAGCC	120
ATTATCAAGT TA	ATTTCCTTG TTAG	CTATTT TTACAGC	TG TGCATGTTAG	GTAGTCATCG	180
TGAAAGCAAG AA	ATCTTAAGT TAAA	TACATG TTTTTTT	GT TTGTTTGTTT	TACTGCTGTG	240
CTGTATAATA CA	ATGATGCTG TTAG	CAGCGG AACGTAT(	AG AGACACGGCA	CCAAAGTATG	300
TTACTGTCGG CC	GAAAACTCG AG				322

- (2) INFORMATION FOR SEQ ID NO:968:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 478 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATGGCCT	AGACTGCTGG	CATATCCACC	CCACCTGTGC	TGCTGCCCCC	60
GCCAATCCAT	CAGGGCAGCT	CCGACTCCTG	CAGCACCCAC	CGCCCAGGAC	GTCAGCTACT	120
CAGGTTTTCT	GGCTGCTGGG	GTTCCGCACG	AATGGGCCCT	TCTTTTGGGA	AAATGCCAGG	180
GAAGGGGAAC	GGCTGGGCTC	GGGCGCCACA	GCTTGTCCCT	CCAGCCAGCA	GGCACAGATG	240
${\tt TATGGCGCAG}$	GAGGGACAAC	TGGCCCCTGT	GGCCAGCCCC	AGAGAGACGG	GCCCTTTCTT	300
TGGGACCCTG	GCCTCAGAGG	CCTGCGTGTC	ACAGCTCAGG	GTCTGGCTGG	GCAGGGGCAA	360
AACCTGCCTT	ATTTGCCAGA	TGTCCCAGAA	GTACACAGGA	GCAGACGCAC	CACTTCGATG	420
GCTATTTTAG	GAGGCTGGTG	ACAAGCAAGG	CATGGTGGCA	GGAAGCCAGG	CCCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:969:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 484 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

CTCGAGGTCC CTGTCCTC	GCT CAGTTTCTCT	TCAATGTGGA	AGTCCTGGGA	GGTCAGTCTC	60
ATGAGAATAA GGTGCTGT	FAC TTTCACAGCC	TTCTCAGACT	TTTCTGAGGA	TGGCCTTACA	120
CTTGCCAGCT AGTGGAG	IGA GCAGAACTCC	TCCTGGTTTC	TGTGGCTGTT	CTCAGAATGC	180
CCTAGTTCAC TTTCCAGT	TAA TACTTTTTTG	GGAACATTTT	GTGTTTCTCA	TTTTCTCAGG	240
TCCCCCAGGC ACACCATO	CTT TCCTCTGCTT	CCTCTCACAC	AGGTGCTGAT	ACTGTGTAGG	300
TTTGGGGCTG TTGTTCTC	GC CCACTCCCTG	ATATTTTCTG	GGTTTGTCAC	CTAGTTTTCT	360
TAAAAGTATC ATCTACAT	GG TTTTGGTTTC	ACTATCTATT	CTGTCTTTAT	TTGAACACTA	420
GGGGAAATTC ATTATGC	CAA TCTCACACAT	TGTGTGATTC	CATTAGGCCA	TGAAGGCCGA	480
ATTC					484

- (2) INFORMATION FOR SEQ ID NO:970:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 540 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

GAATTCGGCC	AAAGAGGCCT	AGGCAAAATG	AAAATACTTG	TGGCATTTCT	GGTGGTGCTG	60
					CCCAAGCAAC	120
AATGGTGGCA	ATGTTCAGGA	GACAGTGACA	ATTGATAATG	AAAAAAATAC	CGCCATCATT	180
AACATCCATG	CAGGATCATG	CTCTTCTACC	ACAATTTTTG	ACTATAAACA	TGGCTACATT	240
GCATCCAGGG	TGCTCTCCCG	AAGAGCCTGC	TTTATCCTGA	AGATGGACCA	TCAGAACATC	300
CCTCCTCTGA	ACAATCTCCA	ATGGTACATC	TATGAGAAAC	AGGCTCTGGA	CAACATGTTC	360
TCCAGCAAAT	ACACCTGGGT	CAAGTACAAC	CCTCTGGAGT	CTCTGATCAA	AGACGTGGAT	420
TGGTTCCTGC	TTGGGTCACC	CATTGAGAAA	CTCTGCAAAC	ATATCCCTTT	GTATAAGGGG	480
GAAGTGGTTG	AAAACACACA	TAATGTCGGT	GCTGGAGGCT	GTGCAAAGGC	TGCACTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:971:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 289 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
    - (ii) MOLECULE TYPE: CDNA
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

GAATTCGGCC	TTCATGGCCT	AGCCAGTCTC	AGCACTTAAA	CAACCAGGTG	TTGAAGGACT	60
ATGTTCCAAA	GAACAGAAGA	GAGTATGGTT	TGCAGATGGT	ATATTGCCCA	ATGGTGAAGT	120
TGCAGATACA	ACAAAATTAT	CATCTGGAAG	TAAAAGATGT	TCTGAAGACT	TTAGTCCTCT	180
CTCACCTGAT	GTGCCTATGG	TAAGGAATTC	AAAGAATACT	TAATTGACTA	AACAAAATTT	240
TATTTCGTAG	ATAATTCCTG	GTGTGATTAT	TAGAGTGCTT	TTTCTCGAG		289

- (2) INFORMATION FOR SEQ ID NO:972:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 418 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

${\tt GAATTCGGCC}$	TTCATGGCCT	AGAGCTTGGG	AGGTTGAGGC	TGCAGTGAGC	TATGAGCTGC	60
ACCACTGTAC	TCCAGCCTGG	GTGACAGGGC	AAGACTCTGT	CTCAAAAAAC	AAAAACAACA	120
ACAAAAACTT	TATTCCTAAA	AAGTGCTGAC	CCAGAGATAA	GAAGCAAGCA	CATGGTTGGT	180
AAAATGACAT	CAGTGAGCTT	GCTTTATGCA	GGGTTGCCCC	AAACCTTCAA	TTTGTAAAAC	240
TCAAAATATC	TGGAAAGCTT	GGTGAGGCGA	GGCGGGACTG	TAACTCAGCA	CTCACCGCAG	300
GGTGAGACCC	TTAGGGCAGC	GGGTGCTACA	CTGAACAAAG	CGGTGAACAG	CCCCCTCGTG	360
AGAGGGGGTT	CTTGGCAGAT	GACGCCAGCA	GCTGACAAAC	AGGCAAGTGC	AACTCGAG	418

- (2) INFORMATION FOR SEQ ID NO:973:
  - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 276 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

GAATTCGGCC TTCATGGCCT A	AGATTTGTAA	AAGATTTTCC	TAGATTTACT	GTGTTCTGGA	60
TCTAGCTTGA ACGTGAATGT	TTGTATAGTA	CGTTTTCTTA	ATATTTTTTA	GTATTCATAG	120
TATATAATCA TACTAAACTT	GAGAAACTGG	AAGAATCAAG	TCTTCCTCAG	TTCTGTTTAG	180
ACTITCTAGT TITTTTTAAG	GATACTTCCA	TATCTTCTGT	AAGCTACACA	GTGAGCTTCA	240
TTTTTGCACA GTTATAATAC	ACTCTCGAAT	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:974:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 379 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double.
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

GAATTCGGCC	TTCATGGCCT	AGGGTTCGAT	GATAAGCACA	GGCGGCAGCT	GGATTGCAAG	60
TGGAGTGGTA	ATGGCCAGAA	CAGCCTCTTT	CTGTTTTGCA	TTTAGTCGAG	GATCCAACTG	120
TTCATCCCAT	TGTCTGTTAG	GACTCCATGG	TATGGTGGGA	GTCATACTGA	TGTCTGGAAA	180
CAAAACCCCA	TTGTCCTTGA	TCCTGTCTAG	TGCATAGTGC	ATTTCACAGA	GGGGTAATCG	240
ATTTAATTGA	AACTGAAGTT	CAACCTGTGT	GTCACAGTCA	GGCCGAAGAT	TAAGTTCTTC	300
ACAGCATTCC	CTAGATAGCC	TTAAAAATAT	ATATTCCTTT	${\tt GTTTTTTCTT}$	CAATAGTAGC	360
TTCCTAGACC	TGCCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:975:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 417 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

GAATTCGGCC	TTCATGGCCT	AAGAGAAAGA	GAGTGAGAGA	GAGAGAGAAA	GAGAGAGAGA	60
GATGCTGTTG	AATCAGAAAC	AGATCAACAG	CCCAAAGATT	TTCCTGTCCC	TGGAGTGCCA	120
GCCCCAGGAA	GCTCCAGGGC	TGAGTGGTCA	GGAGCCAGTT	TCTCCAGCCC	CTCCTCCCCA	180
CAACCCCTAG	TGGGGAGGGG	CAGCTGTCCA	TTTGCCCAAA	GTATTAATGC	AACTGAAGCT	240
GTGATATTTC	CAACGACTGT	AGGAGGAAAA	ATTAAGGGGA	GAGAGGAAAA	CAAAACCAAC	300
CAACCCCTAA	AATCATTTTC	TTATTGTACA	TAACGACCTC	ATTCTCCTGT	ATATGCGGAA	360
GATATAACCT	TATATTTGGT	AAGTGTTTCT	TGTGCTATTT	TATCACGCGA	CCTCGAG	417

- (2) INFORMATION FOR SEQ ID NO:976:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 154 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

GAATTCGGCC	TTCATGGCCT	ACACAGAAAA	ATTTCAACAA	TAAAAGTTCT	TAATTATGGG	60
AAATAGTTAC	ATGTGTGTTA	TATCATTTAT	GGCTCATTTT	GTATTTTTAT	TTAAAAGTAT	120
TAAAATCCCA	ACAGTAACAG	CAATACAACT	CGAG			154

- (2) INFORMATION FOR SEQ ID NO:977:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 252 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

GAATTCGGCC	TTCATGGCCT	AAATTGTTCT	TTGCTCAAAT	AAACTGTTAA	ATTTATCTTG	60
GCAGACTCTA	TTTTGATCCC	CAAATTTGAT	TTAGATTTGG	GGCCATTAAA	TTTCACTATT	120
TAATAATAAC	CCTACTGGAT	GAGAATAAGT	GTTTCTCAAT	TTCTGGTGAT	ATGGTTTGGC	180
TGTGTCCCCA	CCCAGAATCT	CATCTTGAAT	TATATTCCCC	ATAATCCCCA	CGTGTCAACG	240
GCAGGACTCG	AG					252

- (2) INFORMATION FOR SEQ ID NO:978:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 251 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

GAATTCGGCC	TTCATAGCCT	AGTTTAGTTC	TCAGAATTCT	TCATATATTT	TGGCAGCAGT	60
TTTTCCATCA	GATTATTTTG	TAAATATTTT	CTCCCAGTCT	GTGACTTGCT	TTTTCCATTC	120
TCTTAACAGT	GTCTTTCACA	CAACAGAAGT	TTTTAATTTT	AATGAGGCTC	AACTTAATTT	180
TTTTTTCATT	AGTAGATTGT	GCTTTTGGTT	TTGTATCTAA	GAAGCCATCA	TTGAACCCAG	240
GATCGCTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:979:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 534 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

GAATTCGGCC	TTCATGGCCT	AGAAGGCTTC	TGAATAATTT	CTCAAAACTA	NCTTTCCATT	60
TNAGTACACG	ATTTGATAAA	CATAGCACAT	TAGATAGGTA	TTTAGCAATT	TCTTCTACCA	120
ACTACACTTT	GCCCTCACTA	AGGGTTAGAG	TATGATTTGA	AACAATTTCT	ACATATAAAG	180
CATCTTTAAA	${\tt TAAGTTTTGT}$	GTTCACTGAA	CTGAGACTTC	TTTCACTTAT	GTACCTATGG	240
AAGTTAATCT	GAGCATACAC	ATATATACAT	ACTTGCATAC	ATATGTGTAC	ATATGTTTTT	300
TAAGTAAGTN	ACTTTTACCA	TTAGAATAAA	CCTAGACACT	ACAGGGACAA	CTCTGGGGAA	360
CAGGGCGGTC	TGCCTTAACA	ACCCTTCTCT	AGGTTGAGGA	AGGCAGGTAT	AGTTCACTGA	420
AGGATGTGAT	GAGGCTGTAG	TAAGTCTTCT	CATCATCTGT	TAATCCTGCG	TTGCCTGGTC	480
TCACCACCAC	AGCTACGTGC	ACATCTGCTT	CCTCAGCAGC	ACTGGCCTCT	CGAG	534

- (2) INFORMATION FOR SEQ ID NO:980:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 223 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

GCTCGAGTGT	CGTGCTATCT	CTAAATTGTG	ATCACTAAGA	ACCGCTGCGG	AAACAGTAAC	60
TGTTTCTTTT	ATTTTTGACA	TTTTAGTTTG	TAATTTATCC	AATTCTTTCT	TCTTTTGATA	120
AGTCTCCATT	CTCTTTACTT	CACGGGTATT	TTCAAATTCA	TTAATCATTT	TATCACAGTG	180
CCACTTGTTA	GACCCTAATG	AACGATGTCA	CCCTCTTATC	AAA		223

- (2) INFORMATION FOR SEQ ID NO:981:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

GAATTCGGCC	TTCATGGCCT	AATTACTTGA	CCCGTAATAG	GGTTGTGGCC	GTTTTCTGAT	60
GCCTAAGTAT	TATACAGAGC	CCACAATGGC	CAGTTTACTA	CCAGAAAGGG	CTTCAGTAAG	120
ATATTCTTGG	ACTTGATACT	TTCTTCAGAT	CCTCTTTGTG	CCAAGATAAT	TTATCCAGTC	180
ATTGGGAATA	GTAAGTTTCT	GTGTAACCCA	TCTCAATTAT	AGAAGCAAGT	TCAGCTTTAT	240
GTATTTGTAT	GGGGAGTTGA	AGATTCAGAT	AGAGGTATTA	AGATGTGTGG	CATTTACTTA	300
AACCATCACA	TTTTTTTCTT	TCTACGCCCC	CTTGCCTGTA	AAACACCTGG	GAAGTTCCAC	360
TGGTGTCATC	CATCCTGATG	CTTCAGACCA	CCCTCCCTTC	TTCACAGACC	GTGTCACTTT	420
GCCTGTGGGT	GGGGGCTAGC	CAGCCACCAC	CCTCTTTTCT	GTGCTGCCAG	CCAATCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:982:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

TCCGTGTCCC	CTCCTCCCTC	TGCCCCCAGT	GTTTCTTCTG	ATTTTTTTT	CCCCTTTCCC	6(
TCCCTCCCTC	TCCGCATTCT	TCCCTTGGTT	CAGCACAGGT	AAAACGGTTC	CCCTCCCTCC	120
CTGCCTTCAT	GGATCACCAG	CTCACGTCAT	GTTGCCTTCT	CTTTTCTTTG	TGTGTGTGTT	180
TATTTAAGTT	ATTTTTCTTC	CTCCTCTCCC	TTTTCTTTTT	GGCCCTCCCT	CCCTCCCTCT	240
TCTGCCATGT	AACTGGAGGA	TGTGCTATGA	GTTTGCAAAC	AGCCGGACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:983:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 334 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

GGTGAGGATG	GTGGCTGTGG	TTGTGTTGGT	GGCTGTGATG	GTGAAGGTGG	CTGTGGTGGG	60
GATGGTGACT	CTGATGCTAA	TGTTGGTTGT	GGTGATGGAG	GCAGCTGTGG	CAAGGATGGT	120
GACTTTGGTG	GAGAAGGTGG	CCATGTTGGG	GCTAGTGGCT	GTGGTTGTGG	TGATGGCCAT	180
GGTGAGGATG	GTGTTAAAGG	TGGCTGTGAT	GAAGATGGTG	ACTGGGGTAG	AAATGGTGAC	240
TGTGATGGTA	ATGTTGGCTG	TGGTGATGAA	GGGTAGTTAT	GGTGAGGATG	ATGACTATGG	300
TGGTGAAGGG	GCCATAGTGG	CAACGGCACT	CGAG			334

- (2) INFORMATION FOR SEQ ID NO:984:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 631 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

GAATTCGGCC	TTCATGGCCT	AGGGAAAGAG	TAGGGGTGGA	GGGGTAGGAG	GATTTACTCT	60
TCCAGCGAGA	GCTACGCGCA	TCCCATCCTC	CCCCTCCCCC	CTACCCGGGC	TCCGGCNTGG	120
AGGCGGGGCG	TGGCCGGCCT	GCTTTGGGAG	GGGAGGGGCT	TCCCTTACAG	TGCTGGGCTC	180
TGCCAGGACG	GCTGTGGGGT	CGCCTTACCT	CGGGGTATCC	ACTCTGCAGT	CGACCAGTTC	240
CCGCCAGGAG	CAAAGGGTAG	GAAGGAGAGC	AGGATCTGCT	GTAGGAACGC	AGCTACCGCG	300
CCACTATCAC	GAAGAAACAG	CAGGCTCGGG	GCACGAGACG	AACTGGAGAC	CGCGCTGCCT	360
AGCTGGGTAA	CCTGGGAAGC	AGAGGGTAAT	AAGTGGCGCC	TTAAGATAAC	CCTGTAGCAG	420
CAGCAGTGGC	GGCCAAAGGA	GGCTGCTCAG	GGAACAAGCG	GCTGŢAGTAG	TCTGTGGGGC	480
GACTGGAGTG	ACCGAAGCCA	AGGCAGTTTA	GTGCCTCTCG	TGTTCTTATT	TTTTAACCTC	540
TGACTATGCA	ATTCTGAAAC	CTCCCCCATT	CGGGGGACCA	GACAGCCTGA	TAGACACCTT	600
CCACTCTCCT	TCCTCCCGCC	GTGGTCTCGA	G			631

- (2) INFORMATION FOR SEQ ID NO:985:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

GAATTCGGCC	AAAGAGGCCT	ACTGCCTCGG	TTTCTACCTT	TGCCAAATGA	GTTGATAGAT	60
TATCGCTTTT	TTTCCAGCTG	TCATACTCTA	GGAGTCTGAA	TTGTAAAATC	AAAGAAGCAT	120
TTCCCAGAAA	AGTTTTTGTC	AAAAATTTGA	TTTACATAAC	CTCAGAAATG	TGTATTGCTT	180
TAAAAATTAT	AAAGTTCATG	GAGCATACCA	AGCAGCCTGT	ATACCATTTC	TAAACCAACT	240
ACTCCCCTGC	AAGATAGATC	TCTTTTTTAT	AGACAGAAAA	TAAATTCAAA	GAGGTTTGTT	300
ACTTGCCCAA	GGCCACCACT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:986:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 239 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

GAATTCGGCT	TTCATGGCCT	AAAATGTTTT	TCAATTAAAG	ACTTAAATAT	TACACTTTTA	60
AAACTTTTTA	TTATGGAAAT	СТААААААА	TTCACCAAAT	GAGAGAGAAC	ATTACAATGA	120
ACCACCACAT	ACCCATCACC	CATTTTCAAC	AATTATCAAC	ACATGGCCTA	TCTTGTTTCC	180
TCCATACCTT	CAGACACCCT	CCGTCCACAA	ACTGGGTTAT	TCTGAAGCAA	GCCTTCGAG	239

- (2) INFORMATION FOR SEQ ID NO:987:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 695 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

AAAAGTTCAG GGACTTTGCA	CCCTGTGGGG	TACTCAGATG	TCCAGCCGCA	CTCTCTACAT	60
TAATAGTAGG CAACTGGTGT	CCCTGCAGTG	GGGCCACCAG	GAAGTTCCGG	CCAACTTTAA	120
CTTTGCTAGT GATGTGTNGG	ATCACTGGGC	TGACATGGAG	AAGCTGGCAA	GNGACTCCNA	180
AGCCCACCCC TGTGGTGGGT	GAATGGGAAA	GGGAAAGAAT	TAATGTGGAA	TTTCAGAGAA	240
CTGAGTGAAA ACAGCCAGCA	NGCAGCCAAC	TTCCTCTCGG	GAGCCTGTGG	CTTGCAGCGT	300
GGGGATCGTG TGGCAGTGAT	GCTGCCCNGA	ANGCCTGAGT	GGTGGCTGGN	GATCCTGGGC	360
TGCATTCGAG CAGGTCTCAT	CTTTATGCCT	GGAACCATCC	AGATGAAATC	CACAGACATA	420
CTGTATAGGT TGCAGATGTC	TAAGGCCAAG	GCTATTGTTG	CTGGGGATGA	AGTCATCCAA	480
GAAGTGGACA CAGTGGCATC	TGAATGTCCT	TCTCTGAGAA	TTAAGCTACT	GGTGTCTGAG	540
AAAAGCTGCG ATGGGTGGCT	GAACTTCAAG	AAACTACTAA	ATGAGGCATC	CACCACTCAT	600
CACTGTGTGG AGACTGGAAG	CCAGGAAGCA	TCTGCCATCT	ACTTCACTAG	TGGGACCAGT	660
GGTCTTCCCA AGATGGCAGA	ACATTCCTAC	TCGAG			695

- (2) INFORMATION FOR SEQ ID NO:988:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 314 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

GAATTCGGCC	TTCATGGCCT	ACTCAGAACA	ATCACTGCAT	ATCCCATCTT	AAAGGCAAAA	60
CCCAAACCAG	AAAAACCCCA	CTCAGGTCTT	GCTGACCCAA	CACTACAGTC	ACTGTATTTG	120
AGACCCCTTT	TTCTTGAAAA	AGGGACTTCA	CTTTTTTGAG	CAGCATTCTA	TGGTTCTTTC	180
CACACAGCAA	TTGACGCATC	TCACGGCACT	GCTCTCTGCT	GGGCAGAGAG	CAAACACAGA	240
CAGCCACCAT	CCCCATATTC	GTAGTAAGAG	AAACTCCAGA	AACGCAGCCA	CCGTCCCCCT	300
AGACCTGCCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:989:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 687 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

GAATTCGGCC AAAGAGGCC	T AGGAGCTCCC	CCATGGATCA	TGGCGTTAAT	GTTTACAGGA	60
CATTTACTAT TCTTAGCAT	T ATTGATGTTT	GCTTTCTCTA	CTTTTGAGGA	ATCTGTGAGC	120
AATTATTCCG AATGGGCAG	T TTTCACAGAT	GATATAGATC	AGTTTAAAAC	ACAGAAAGTG	180
CAAGATTTCA GACCCAACO	A AAAGCTGAAG	AAAAGTATGC	TTCATCCAAG	TTTATATTTT	240
GATGCTGGAG AAATCCAAC	C AATGAGACAA	AAGTCTCGTG	CAAGCCATTT	GCATCTTTTT	300
AGAGCTATCA GAAGTGCAG	T GACAGTTATG	CTGTCCAACC	CAACATACTA	CCTACCTCCA	360
CCAAAGCATG CTGATTTTC	C TGCCAAGTGG	AATGAAATTT	ATGGTAACAA	TCTGCCTCCT	420
TTAGCATTGT ACTGTTTGT	T ATGCCCAGAA	GACAAAGTTG	CCTTTGAATT	TGTCTTGGAA	480
TATATGGACA GGATGGTTC	G CTACAAAGAC	TGGCTAGTAG	AGAATGCACC	AGGAGATGAG	540
GTTCCAATTG GCCATTCCT	T AACAGGTTTT	GCCACTGCCT	TTGACTTTTT	ATATAACTTA	600
TTAGATAATC ATCGAAGAC	A AAAATACCTG	GAAAAAATAT	GGGTTATTAC	TGAGGAAATG	660
TACGAGTATT CCATGGTC	G TCTCGAG		,		687

- (2) INFORMATION FOR SEQ ID NO:990:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 677 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

GAATTCGGCC	AAAGAAGGCC	TAGAGCCCTT	CTGTCCCTTC	TACCATGTGT	GGATGCAGTG	60
AGAAGGCACC	GTATCTCTGA	AGCAGAGAGC	CCGCCCTGGA	CACTGGATCT	GCTGGCACCT	120
TGATCTTGGA	CTTCCCAGCC	TCTAGAACTG	TGAGAAATAA	${\tt TTTTTTGTTG}$	TTTACAAATT	180
ACCCAGGCTA	AGGTGTTTCA	TTGTAACCTG	AATGGACCAA	GCTGGTGTGA	CCCTGTTGGA	240
AAACTGGCAG	TATCTACCAA	AAGCCGAACA	TACGTATAAA	CTGATCCAGC	AGTTCCACTC	300
CTGGGTATGT	ACACCACAGA	AAGCTATGTC	CACCGAGACA	TTGGCAAGAA	TGTTTCTAAC	360
CACACGCTGA	CTGTAGCCCC	AAACCTGAAA	CAACCCAAAT	GTCCATCCAC	CAACCCAAAT	420
GTCCATCCAC	AGTTGAAGCT	ACAGTGAAGT	CACAGGGTCG	AATACTACTG	CACAGCAACG	480
AATATGAATG	AAAATATCGC	TATGCACAGC	AACATGGATA	AATTTCACAG	ACATGAGGTC	540
AAGCAAAAGA	GGTCAGAGTC	CTCATCATCA	AGAGAGAATT	CATTGTATGA	TTCTCTTCCT	600
ACAAAAAGTA	CAGAAATAAG	CAAAACTGAT	CCATGGTGTT	AGAAGCCAGG	GGAACAGTTA	660

ACAAGGGAGC ACTCGAG 677

- (2) INFORMATION FOR SEQ ID NO:991:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 445 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

GAATTCGGCC	AAAGAGGCCT	AAGAAGCTGC	TTCCTCCTGG	GAACAACCGC	CTCCCGCTCC	60
TAGCAGGTTG	CTACTGCCCC	GAACCCGCGC	TGCAGGGAAC	AGCGGGGCAA	ACAAAACCAA	120
TAGAGCCATG	GCGACTCCCT	CTGCTGCCTT	CGAGGCCCTT	ATGAATGGTG	TGACAAGCTG	180
GGATGTACCC	GAAGATGCTG	TTCCATGTGA	ACTGCTTCTT	ATTGGAGAGG	CTTCATTTCC	240
TGTGATGGTG	AATGACATGG	GCCAGGTCCT	CATTGCTGCC	TCCTCCTATG	GCCGTGGCCG	300
CCTGGTGGTC	GTGTCCCATG	AGGACTACTT	GGTGGAAGCC	CAGCTCACGC	CCTTTCTCCT	360
GAACGCAGTG	GGGTGGCTTT	GCTCTTCCCC	TGGGGCTCCC	ATTGGTGTAC	ACCCATCCCT	420
GGCACCTTTG	GCCAAAATCC	TCGAG				445

- (2) INFORMATION FOR SEQ ID NO:992:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 392 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

GAATTCGGCC TTCATGG	CCT ACTGTGATTT A	AAAATCTTGC	TGTGTGGCTT	GGGTTGTTTG	60
TGTTGGTTCC AAACCCT	GAA TCTTTTGGGG 1	TCTTCAATTT	GTGGGCATGT	CAGTGGAAAT	120
TCTAAGCTTT GTTTAAT	GGT GTGTGTGTGT (	CTGTCTGTCT	CTGTGTGAGT	GTGTTTAGAA	180
ATTGGCTTCT CTGGGTT	CCT CGCTCGTCTT (	CTGGAAGGTG	GGGTTATAGA	CATGCTGGTG	240
AATTCTGAAT GTTTTAT	AAA TTAGACTATT A	AACGGAGTTA	AATTGAAGAA	ACCTTCTGTC	300
ATAAGACCTT CCAGGAA	TTC CATTCCAAAT (	GAGGAAATGC	ATAAAGACTT	GTCCACTTGG	360
CAAACATTGG GTGTTTG	GGA GGTGGACTCG	AG			392

- (2) INFORMATION FOR SEQ ID NO:993:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 359 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

60	TGGCTGTGAC	GTGCTGGTGG	CTTCCTC	AGGCGGCTCC	TTCATGGCCT	GAATTCGGCC
120						
		ATTTCCGAGC				
180	TGGACTTGGG	CTTTCACTGT	GGTTGAAGGC	GGAAGAGAGT	CTGAGCTCTT	GGTGTCCCCA
240	እረረምረምምምረሽ	<b>ጥጥ አልጥ አለጥ አጥ</b>	ጥር እ እ እ ሮጥሮር እ	ሮልርጥአጥጥቦርአ	ጥአጥጥርጥርር እር	እሮሞእሞሮሞሮሮር

TTTCCTAATT GACTATGCTG AATTGGTGTT TATGATAACT GATGCACTCA CTGCTATTGC

CCTGTATTTT GCAATCCAGG ACTTCAATAA AGTTGTGTTT AAAAAGCAGA AACCTCGAG

300

359

(2) INFORM	ATION FOR SEQ ID NO:994;	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 115 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(11)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:994:	
	AAAGAGGCCT AGACTGTCAG CTGTGAGTGG CCAGTACAAC AAATGCTTTG GTCATTCTGA TGTCTTGCAA CATATCATCG TGTTTGATTC TCGAG	60 115
(2) INFORMA	ATION FOR SEQ ID NO:995:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 633 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:995:	
CCTCTCCTGC CTGGCCCCGC TCACCCTTGA GGAGCCAAGA CCTTCTGGTC CGCTGGCCTC CAGCTCATGG CAACACCGCC AATGTCGATG CAGGTTCACC	AAAGAGGCCT AGTGGAGACA AAAGCATGTG ATCCCAATTT GCTGGGATAT ATTTCAAACA CCTTCACTCA GTGTCAGCCA CAGCGGCCAC CACATAGCAG ACCTTCTCTG GAACAGTCTG GAGATGCAAG GTCAGGGTGG AAGGCCTGGT AAGAAAGGAT GGCTAGGGGT AAACAAGACG AGCAACTCCC TGGAATGCAG AGGGCAGCCG AGGATAAGGC TCTGCCTCCC CAACGGCGAG GGTTTCCTTT ATTANAACTG CACAGCCCCC GGGGAGATGT TGAACATGGC AGGGTCGAAT GGAAGGGAGA ACTTCAGCAT CCCACCCTTC TTCAGCATCT CATGGACTTT CTCTGTGGCT TGCCCTGCAG CTTCTGGTGG TAGTCAAAGG TAAGCCTGTC TGTTCCTCT CATCCACGGT GGCCATGGAG CGCTCCTTGT TGATCTTGTC GGCTCTTCTC CCTCCAGGAT GGCCTTCCAC CAATACTCGC CCACCTTGCT AAAACGCACT TCCCGGGCTC GAG	60 120 180 240 300 360 420 480 540 600 633
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 462 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:996:	
TCTGGCATCT ATGACAAAAA CCAGACATGT	AAAGAGGCCT AGTTGATTCT CAGTTCATGG TGGAGTCATT CAAGTTTATT TGGCAGCCCT GAGTGCCATG ATCTCTCTAG AAATTCCGCA AGTCAACATC TGGATCTGCT GAGTAAAAAA GCAAAAAAAGG AAATTGAGAA ATTTTTAGAT ATTCTTTATT AGAAGATTCT ACAAGTGACT TAAGAAGCAA AAAATTCAAG AAGCTATATG TGGACTGATT GATGACTACA GCATGGTTCG ATTTTTACCT	60 120 180 240 300

TACGATCAGT	CAGATGAAGA	AAGCATGAAC	ATTGTATTGC	AGCATATTGA	TTTTGCCATT	360
CAATATGGAG	AAGACCTAGA	ATTTAAAGAA	CCAAAGGAAC	GTGAAGATGA	GTCTTCCTCT	420
ATGTTTGACG	AATATTTTCA	AGAATGCCAG	GATGTACTCG	AG		462

- (2) INFORMATION FOR SEQ ID NO:997:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 548 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: CDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

GAATTCGGCC	AAAGAGGCCT	AGCTGGTAAC	ACATGTGAAC	TCAGGTAAAG	TCATCGAGCA	60
TTTTACTGAC	TCTATTCCTC	AATAAAGTAC	TGGGAAAAA	CTCATAAGAA	TGACAAAAAC	120
AACATACTCA	GGTATGCGAG	CAGAAGCCTC	TGACACAGCT	TGTCTTCGGG	GCTTAACTAA	180
ATGATCTATT	TTAATGAGGG	AATCCGTGGA	AAGGCATGCG	TTTTCAGGCT	CATTTTCTGC	240
		GTTGGAATCT				300
		AAAACTGGGC				360
		CATGGCTTTC				420
		AAACATCTCC				480
	GTGAAATGGC	ATCTGTCATC	TTTAGCGCCA	CCTTATGTCA	AGGGAGTTGA	540
TTCTCGAG						548

- (2) INFORMATION FOR SEQ ID NO:998:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 572 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

GAATTCGGCC	AAAGAGGCCT	AGTTTCCCTT	TCTGTATTTT	ACTACTAAAT	TAGAAAGCAC	60
TGGTTATGTA	ATAAGTTACT	ACATTGCTTT	GGTTGAGTAA	AAACAAGAGT	ATATATTTT	120
CTTGTTTCTT	ATTTNCTAAA	CCCTTAACTC	CTGCTGAGGT	CATAACAACC	TCAGTCTAAG	180
CTCTGTGTCC	ATCATACTGT	TAACTTAAAC	AAATGGGTGG	TGGGGGTGGG	AAGGGTAATA	240
CAGTCCTGCC	ATTGCCTACC	AGTAGGAGAG	TCCAAACAGA	ACACTCTTTT	GAGTAGCAAT	300
TATTTAATTT	GCCCAGTCAA	GGCACCGTGT	TTATATACTA	TTTCACATTG	AATTTGATTA	360
TGCCCTACAG	ACCTGGCTGG	TCAAGGATTT	GATATACACA	TATTGGCTTG	GGATTCGAGC	420
TTTCTTTTTT	ATTTAAATAA	TATATTTAAA	ATATATTATA	TATATACATA	TATACATAGC	480
TATATCTGTA	TATATATTGG	GTATGTTTTA	AGGATTTTTT	CGCATGAGCG	CAGCTGTTGC	540
GATAAATTGA	CCGATTGGGA	${\tt GGTATTCTCG}$	AG			572

- (2) INFORMATION FOR SEQ ID NO:999:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 629 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

${\tt GAATTCGGCC}$	AAAGAGGCCT	AGAGGGGAGC	ACGTCTTTTC	CTTGAGTGTA	ATTCACTAAT	60
GACTGTGGTT	CCAAGGAGGT	GCGACCTTTA	AAGGGAATTG	GCCCTTCTTT	GAAGGCAGGT	120
GAGAATCTAG	TCTCAGTGAC	AACCCAGCCT	GATTTGGAAG	GGGGGAGTCA	TAAGGGTTTT	180
CGCCCAGCAC	ACCAGGGTTG	CAGCCTGCGC	AAGACCTTCC	ATAGCTATTT	CTGCCGGCTT	240
GCTTCCTTCC	CTTCCCAGCC	ACGATGAGGC	AGCTGAGGGT	TGCCACGGAA	ACCGGCTCTG	300
TCCTCCCACT	GGAGGCTGCC	AGCTCTGATT	TCCTGCAGAG	TTAAGAAGGA	GGCGGCAGTG	360
GGGGTCACCC	AGGCGTGAAG	ATGGGTTTCC	CTGGGGATAT	CCTGCCTCCT	GCCAATCACA	420
GCGTCTCTCT	GGGAATCCTG	GGGGTGCCTG	GAGGCTGAGG	CCCAGGGAAG	CCCCCAAACC	480
CCAGTGCTGC	TCTGAGAAGA	GACTAGCCTC	TGGGACATTC	AGAGGTCTGG	GGTTCTTTTA	540
TCTCCCTCCA	GCTAAAGCTA	GAGGGACCTC	ATTATGTGTC	TTACAAGATG	TACCCTAAAC	600
${\tt CGTCGATTGA}$	ATTCTAGACC	CGCCTCGAG				629

## (2) INFORMATION FOR SEQ ID NO:1000:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 568 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

GAATTCGGCC AAAGAGGCC	ACCTGTATGC	TATTAACACT	CACCACAGCA	GAGAGCTGAG	60
GATTGTGGTT GCAATTCGG	ATAAACTGCT	TCTGATCACA	AGAAAACACA	ACAAGCCAAG	120
CGGGGTCACC AGCACCTCAT	TGTTATCTCC	CCTGTCTGAG	TCACCTGTTG	AAGAATTCCA	180
GTACATCAGG GAGATCTGT	TGTCTGACTC	TCCCATGGTG	ANGACCTTAG	TGGATGGGCC	240
AGCTGAAGAG AGTGACAATG	TCATCTGTGT	GGCTTATCGA	CACCAATTTG	ATGTGGTGAA	300
TGAGAGCACA GGAGAAGCC	TCAGGCTGCA	CCACGTGGAG	GCCAACAGGG	TTAATTTTGT	360
TGCAGCTATT GATGTGTAC	AAGATGGAGA	AGCTGGTTTG	CTGTTGTGTT	ACAACTACAG	420
TTGCATCTAT AAAAAGGTTT	GCCCCTTTAA	TGGTGGCTCT	TTTTTGGTTC	AACCTTCTGC	480
GTCAGATTTC CAGTTCTGT	' GGAACCAGGC	TCCCTATGCA	ATTGTCTGTG	CTTTCCCGTA	540
TCTCCTGGCC TTCACCACCC	AACTCGAG				568

- (2) INFORMATION FOR SEQ ID NO:1001:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 543 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

GAATTCGGCC	AAAGAGGCCT	AGTAATACTT	AAAGTGCAAT	TGTTCCAAGG	CTTTTGTTTC	60
CATCATCACA	AATATTATAA	AGAAAGAGCT	ATGTTTAGGG	TGAAGAAGAT	ATGGCACAAG	120
TAATATGTAA	AGAACTTATG	ACTTTCGCAT	CCTCTAGCAA	ACAGTAAGCT	GCCTGTACAG	180
CTGCACACAG	ACGGACTTTA	CACAACAAAC	TCTGGAACTT	CATCATGAGT	GAGATCCAGA	240
GAAAAGTATT	TGCTGGTTCT	TTTGACTGGA	AAAGCATCTT	GGATGTTGAT	GCACTGCTGG	300
GCCAAGCAAC	TGTTGCAATA	GAGGCCTTCC	TCATCCAGTT	CATGGCCACA	TCCAAAGGTG	360
TAACTCTGAG	CAGTGTCCTG	ACACAGACCT	GCAATGCGCA	GGAAGTCTTT	CTGGTAAAGT	420
CTGATGTCAT	CGAGGCTCAA	GCTGTGTCGA	TCAGTGGAGG	TCTTTGGTTT	CCGACATATA	480
GTCTGTGGAA	GAGAATCAGT	ACTCTGGCCA	CGAAGCTTAA	CAACTGTTTC	TGAAGAGCTC	540
GAG						543

- (2) INFORMATION FOR SEQ ID NO:1002:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 592 base pairs
    - (B) TYPE: nucleic acid .
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

GAATTCGGCC	AAAGAGGCCT	AATTCCACTT	ACGAATTAAC	ACTGTGTACA	TGGCACCTTT	60
GGGCCCATCT	TGCCTTGAAA	GTCCCTGTTG	GATGGAACAG	TGGCATTTTC	CTTCCTTTTC	120
TCAGGACTGC	AAACAGACCT	AATATTTGGC	CTTGCCCTTG	CCTGGGAAGC	TGCTGCTGAG	180
TCTTGTCTCA	GCCGGGCTGT	GCATTCCGAG	CGGCTGCCCT	GCCCTGCGCT	CAGCAGCTGG	240
AATCAATCTG	CCCACCTCCT	TAAGAAGCCA	CTTCATCAGC	GGTCACCCGG	CAGCTGCTCG	300
CCTCCCAGGG	CTGCCGGGCT	AGGGCTTTAT	CGCATTTTTG	AAATTTCAGA	TTTCTGTGTC	360
TGGGCTATGC	CCCTCGAACA	GTAACAGCAC	CGCTTTGCAG	CAGGGAGGAG	ATTTCACCAG	420
GATATGGAGG	GGACAGGAGA	AAAGCCCTCC	TTCCCAGAGT	CCACTGTCAT	TCAGGATTTG	480
CTCTCAAAGA	GGCAAGAAAT	CTCTAAGAAT	GAAAGGAGGT	GTTTTGTTGT	TGTTGTTGTT	540
TTTTGTATGT	ACTGGGAGGA	AATGGCTAAT	CTTGGGTATG	CACACGCTCG	AG	592

- (2) INFORMATION FOR SEQ ID NO:1003:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 584 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

GAATTCGGCC	AAAGAGGCCT	AGGCTCCGTC	TGTTGGGGGG	CGAACACGCC	GCGGTCCTCG	60
TCGTGTGAAG	TAAGAACTCT	GCTAGAGAGG	AAATGGCTGC	TTCATCATCA	TCCTCCTCAG	120
CTGGTGGGGT	CAGTGGAAGT	TCTGTCACTG	GATCTGGTTT	CAGTGTCTCA	GACCTTGCCC	180
CACCACGGAA	AGCCCTTTTC	ACCTACCCCA	AAGGAGCTGG	AGAGATGTTA	GAAGATGGCT	240
CTGAGAGATC	NTCTGCGAAT	CTGTTTTTAG	CTATCAAGTG	GCATCCACGC	TTAAACAGGT	300
GAAACATGAT	CAGCAAGTTG	CTCGGATGGA	AAAACTAGCT	GGTTTGGTAG	AAGAGCTGGA	360
GGCTGACGAG	TGGCGGTTTA	AGCCCATCGA	GCAGCTGCTG	GGATTCACCC	CCTCTTCAGG	420
TTGATACTGC	CTGGATGGTC	ACCTCTGGTG	CGCAGCAAGT	GCAAAGCCAG	TGGGGGACTT	480
TCTCACAGCT	TACATAGCCA	TCCAGAGATC	CACAGCTACG	TCACTGAATT	GTTAATGCAC	540
ATTTGTACTT	GGTTTCTCTG	TATCTATTCA	CAGGCGAACT	CGAG		584

- (2) INFORMATION FOR SEQ ID NO:1004:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 440 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

60

2 - 2

ACTCCAAATG ATGACATGGT	CTTATTTTAT	CTATTAACCA	TAAGCTTACA	GATTCTAGTG	120
AAGAAAAAC TTTAGGAGGC	TACATGGTCT	ATTGGAGAGT	GTAGGCTCTG	CAGTCAGAAG	180
ATCCCTACCC AGGCTTCTGT	CTTTCTCAGT	AAGACTTGGG	ACCACAGCAA	GGTCCGCAAT	240
CTCCTGAGGC TCTGTTTTCT					300
TCACACATGG AAATCTTATC					360
CATACCATTA ATACTTTACT	TTAGCTATGT	TTGGTATGCA	TGAGTTGATG	AGTGATTAGA	420
GTACTATGAG CGATCTCGAG					440

- (2) INFORMATION FOR SEQ ID NO:1005:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 426 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

GAATTCGGCC TTC	CATGGCCT ACTCAGTTGC	AGATTCTGGC	CAACATGGAC	AGCCAGCTAA	60
AAGAGCTACA GAG	STCAGCAT ACCCATTGTG	CCCAGGACCT	GGCTATGAAG	GATGAGTTAC	120
TCTGCCAGCT TAC	CCCAGAGC AATGAGGAGC	AGGCTGCTCA	ATGGCAAAAG	GAAGAGATGG	180
CACTAAAACA CAT	IGCAGGCA GAACTGCAGC	AGCAACAAGC	TGTCCTGGCC	AAAGAGGTGC	240
GGGACCTGAA AGA	AGACCTTG GAGTTTGCAG	ACCAGGAGAA	TCAGGTTGCT	CACCTGGAGC	300
TGGGTCAGGT TGA	AGTGTCAA TTGAAAACCA	CACTGGAAGT	GCTCCGGGAG	CGCAGCTTGC	360
AGTGTGAGAA CCT	rcaaggac actgtagaga	ACCTAACGGC	TAAACTGGCC	AGCACCATAG	420
CTCGAG	•				426

- (2) INFORMATION FOR SEQ ID NO:1006:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 402 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

GAATTCGGCC	TTCATGGCCT	AGAGTAGCCA	GGGAGCTGGA	AGTTCCACAG	ATTGGTTTTA	60
ATAAACAAAC	TCCCTCAATG	ATGAGTGGTC	TTTTGAAGAG	CATGGTTAGA	ACTTGGGATT	120
GTGCTTCTCA	TGACTACAAA	TGTACTTGTA	GCTTAGGTGC	AAAAGGGTAG	GTCAGTGGGT	180
AGCTAACTAC	TGAGGATTGA	TTTTCCTGAC	GCTGGTGTTT	AAGTGTCACC	CAGAACTGGC	240
ATATAAAGTG	GCTCATTCAC	CCAAGTATCT	TCCTTTCCTT	TTTACAAAAT	CCTTGGCTGT	300
TGTGGGGCCT	ACATCTCTTC	ATGATTATTA	TTGCATCTGG	TGTCATGTTT	TTCCAGCTGG	360
TGTACTGCTT	CCCTGTAGGC	TTCTTGATGT	TCACTCCTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:1007:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 456 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

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GAATTCGGCC TTCATGGCCT ACTGGTGCCA CGGGAGGCAG ACACCAAGTT CTGGGGTCTC 60
CAGCTGCAGT GGGTGCCGC CAATTGCTTC TCTCTGTCCA GACTAATGAG AACATGGAGA 120
TCACCAGTGC ACTGCAGTTG GAATAGCACG TAAAGAGGGA GCTGGGAAAG AAGCTGGGCA 180
AGCTAAAGGA CATGGTAACC CTGCCCCATC CAAGAAGAGGC TGGAAGGCGG GCACCAGCCT 240
CTGGGGAGGG GAGGTGTAAA GCCAGAGGCA GCTCCAGCCT GGGGACAGG TGACCCCAGC 300
ACCCTCCAGG GCAGTCCTGT GACTGTTTCT TGCTTCCCGC CCTCTGACAT TTAGTGGTGG 360
GTTCGTTCTT CCTAGGTCTG GACATCATCA TCCCAGCTG AGTCATGGAG CCTCCCAAAC 420
ATAGGGAAAG AGATGGTGGT ATAAGAGGCT CTCGAG
```

- (2) INFORMATION FOR SEQ ID NO:1008:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 564 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GAATTCGGCC AAAGAGGCCT	AGGATGGCTG	TGTTTGACGG	GTGTTGCTCG	TGACAGTTGG	60
GGTCCTCCTC AGCATCAGTC	TTGACATGGC	TGCAACTGGG	GGGGTCCTCG	GGATCCTCCC	120
GGAATCTCTT CCTCAGCATT	CGCTCATGAT	AAGGTTTCAG	GTGTCTTGAT	GGTTCAGTCC	180
TGGAGAAACA TAAGCATAAC	CTCTACCCCA	AGTTATTATT	TTACCTATTT	CCCAACTTTC	240
TGTTATCAGG TCTCTCCACC	AAACCAGTTG	TTCTGCTTCT	GTCTTTGCAG	CTGGTTTCTG	300
TAGATGCTGT TCAGCTGCTG	ATAAGATCCG	GCCTTTAGGC	AGGCTCAAAA	AATTTAAAGT	360
TAATAATGCG ATTCAATTGC	TTATGGGGTG	TCCTGTAGTA	CCTGTTTTCC	CCCTTTTGCT	420
TCTGCAACTG CTGTTTCAGG					480
TATATGGGAT ATCAGTAATG	TGTTTAATAT	TCCGTATAGA	GAAAAATTTA	GCTAGAGCTT	540
GAGAATTAGG TTCCAATCCT					564

- (2) INFORMATION FOR SEQ ID NO:1009:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 661 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

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GAATTCGGCC AAAGAGGCCT AGAAAAAGAT GTCATTCCGT AAAGTAAACA TCATCATCTT
GGTCCTGGCT GTTGCTCTCT TCTTACTGGT TTTGCACCAT AACTTCCTCA GCTTGAGCAG
                                                                      120
TTTGTTAAGG AATGAGGTTA CAGATTCAGG AATTGTAGGG CCTCAACCTA TAGACTTTGT
                                                                      180
CCCAAATGCT CTCCGACATG CAGTAGATGG GAGACAAGAG GAGATTCCTG TGGTCATCGC
                                                                      240
TGCATCTGAA GACAGGCTTG GGGGGGCCAT TGCAGCTATA AACAGCATTC AGCACAACAC
                                                                      300
TCGCTCCAAT GTGATTTTCT ACATTGTTAC TCTCAACAAT ACAGCAGACC ATCTCCGGTC
                                                                      360
CTGGCTCAAC AGTGATTCCC TGAAAAGCAT CAGATACAAA ATTGTCAATT TTGACCCTAA
                                                                      420
ACTITIGGAA GGAAAAGTAA AGGAGGATCC TGACCAGGGG GAATCCATGA AACCITIAAC
                                                                      480
CTTTGCAAGG TTCTACTTGC CAATTCTGGT TCCCAGCGCA AAGAAGGCCA TATACATGGA
                                                                      540
TGATGATGTA ATTGTGCAAG GTGATATTCT TGCCCTTTAC AATACAGCAC TGAAGCCAGG
                                                                      600
ACATGCAGCT GCATTTTCAG AAGATTGTGA TTCAGCCTCT ACTAAAGTTG TCGATCTCGA
                                                                      660
                                                                      661
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(2) INFORMATION FOR SEQ ID NO:1010:

(i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 316 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:	
GAATTCGGCC TTCATGGCCT AGGAAAGATT TGACTGCTTC TCTCATGCAG GGGAATAAAG CAAAGGCACG TGCAGAGGGA AGTAGGGGTA GAGAGAGGCA AGTTAGCTTC AGAGAGATTT ATTTGCACCC AGTTCTGTTC TACTCAGCCT GACGTTTTAT CATCTTTTG AAAAGTGGCG TGAAGTGGTG TGGAACACAT CAGAGGGTGA AGCCGAGCAA ATCTGAAAGA GAGCAGAGGA TTTCATATGA TATCCTATGT GTGCTTTCCC CTTCCTTCTT AGGAGCTGGA AGAGGCAGAA TTGATGTCCA CTCGAG	60 120 180 240 300 316
(2) INFORMATION FOR SEQ ID NO:1011:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 244 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:	
GAATTCGGCC TTCATGGCCT AGAAACATGC TAGACATTTT GAAGAACCAG CAAGAATGTT AGTGTAGCCA ACAGTGAGGC AGGCAAAGGT GAGTAAGGTA GATTAGTTCA GGGAAGAAAA CATAACATTA TTTAATCCAT TGTGGGCCAC ATTGCACTAT GATAACACTA TCATGTCATA GAGTCTCACC ATTGTTTAAG ATGTTTAAAT TTTTTAATAC GAATATATC TCACACCCCT CGAG	60 120 180 240 244
(2) INFORMATION FOR SEQ ID NO:1012:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 355 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:	
GAATTCGGCC TTCATGGCCT AGCACTTCCC GAGACTCTCT AGCCTTGGAT AAAGAGAGAA TGGATAAAGA TCTGGGATCT GTGCAGGGAT TTGAAGATAC AAATAAATCC GAGAGAACTG AGAGTCTGGA AGGAGATGAC GAGTCCAAGT TAGATGATGC ACATTCATTA GGCTCTGGTG CTGGAGAAGG ATACGAGCCA ATCAGTGATG ACGAACTAGA TGAAATTCTG GCAGGTGATG CAGAAAAGAG GGAGGACCAA CAGGATGAGG AGAAGATGCC AGATCCCTTA GATGTGATAG ATGTGGATTG GTCTGGTCTT ATGCCAAAGC ATCCAAAAGA ACAACGAGGC TCGAG	60 120 180 240 300 355
(2) INFORMATION FOR SEQ ID NO:1013:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 351 base pairs  (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCC	TTCATGGCCT	ACAGCCTAAA	TGTTTTATTT	CCTGAGAGGC	TGGAATCTGT	60
ATTTGTGGTA	TCAATCAGTC	AACTGAAATT	TATTAAATGC	CTGCTGTGAG	CAAGGCCTAA	120
TGCTGAGGGA	TGTAAAGAAG	AGTGAGAAGC	TAGTCTGGTT	GGGGTNATAT	GACATGGCAA	180
GTCATAGAAT	GAAGAAGCGT	ATTCCTTGTC	ATATGAAAGC	TGCAGATTAG	TGTGGTTCTA	240
AGTAGAGGCC	AGGGTCACTG	GAGTCTAGGA	TTGCAGGGTT	GGCTGGCTTC	CCAGAGGCTA	300
AGAATTTAAT	TTGGATCTTG	AAGATCTGGT	CCAATTCCAA	CANGACTCGA	G	351

- (2) INFORMATION FOR SEQ ID NO:1014:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

GAATTCGGCC	TTCATGGCCT	AGGCCTTGTA	TTTTTTTTTA	TTTTCTGCTA	AATTAGAAAG	60
AAATTTGCTG	TTTCAAATAT	ACTCAAGCTG	TTCAGTTCTT	CAACAAAAAG	TAGGTGACTG	120
AAAACTGTAT	GTTTAACTAT	GCTTAAGTTA	ATATTTATAG	TAATGATAGA	AGCCATTTTA	180
TTGGCAATAT	ATCACTTCCT	GATTTCCACA	CCAGGCATTC	CCACATGCAC	AAACAGGTGT	240
GTGGGAGGAA	GGGAAATGGG	CAAAAATGAT	TTCCTTCAAG	AGGCTACTGA	GAATGAAAAC	300
TCAAAATCTG	CACAAATAGG	GGTGGTGGAA	GGAGAGAAAG	AAAACTCCAT	GCCAGAAATA	360
ACATGCTTAG	CAGAGAGAGA	GAGAGATCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:1015:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 262 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC	TTCATGGCCT	AACTCAGTTG	GCTTCTAATT	TGCGTAACAA	GATTAAGGTA	60
${\tt GTATTTTGT}$	ACTATTATTG	GAAGCATGCC	TTCCCTTTTT	CACATTATTA	AATTGTATTT	120
ATATTTGTGC	AATTTTAAAC	TATGTTTTCA	AATAAACTTT	GTCTGCGGCT	TCGAGGTCTT	180
${\tt TTCAGGAATC}$	TTTCAAAATG	GGATTTGGGG	ATCAGAACTC	CTTCTGATCA	AATGGAATCC	240
AATTTGTACT	ACTGGTCTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:1016:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 304 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

CAGAATGGGA	CTCCAAGCCT	GNCTCCTAGG	GCTCTTTGCC	CTCATCCTCT	CTGGCAAATG	60
CAGTTACAGC	CCGGAGCCCG	ACCAGCGGAG	GACGCTGCCC	CCAGGCTGGG	TGTCCCTGGG	120
CCGTGCGGAC	CCTGAGGAAG	AGCTGAGTCT	CACCTTTGCC	CTGAGACAGC	AGAATGTGGA	180
AAGACTCTCG	${\tt GAGCTGGTGC}$	AGGCTGTGTC	GGATCCCAGC	TCTCCTCAAT	ACGGAAAATA	240
CCTGACCCTA	GAGAATGTGG	CTGATCTGGT	GAGGCCATCC	CCACTGACCC	TCCACACGCT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:1017:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 355 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

GAATTCGGCC	AAAGAGGCCT	AGTTTAAAGA	AAAAAAAAA	GACCCATCAA	GGGCATAGAA	60
AAGCTTAGGT	GAAGAAACCC	TAAAATGAAT	CCTCATTTAT	CAACTCATTC	ATTTATTGAT	120
TCATTTGTTC	ATTCATTTGT	TCACTCAAGA	AGTATTTGTT	GCCAGACACA	GTACCAACAA	180
AGAAAATAAG	CATCCACTAC	GGCTTTGCAG	AGCTTGGTAC	GCAATGCCTG	GTTCAGAGGA	240
GATATTTGTT	CATCGCTTGC	TTTTAACTGT	ATCACAGCCT	AGGGTGGCAT	GCAGAGGTTT	300
GAATAAGTGC	TGAAACAGGA	CAAGTGAGGT	GCTTATGGAA	ACACACAGGC	TCGAG	355

- (2) INFORMATION FOR SEQ ID NO:1018:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 502 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

GAATTCGGCC AAAGAGGCCT	AGAAGGAAAT	TGTCCCGAAT	CCCTGCAGTC	TTTCTGTAGG	60
TTGCGGCACA ACGCCAGGCA	AAAGAAGAGG	AAGGAATTTA	ATCCTAATCG	GTGGAGGTCG	120
ATTTGAGGGT CTGCTGTAGC	AGGTGGCTCC	GCTTGAAGCG	AGGGAGGAAG	TTTCCTCCGA	180
TCAGTAGAGA TTGGAAAGAT	TGTTGGGAGT	GGCACACCAC	TAGGGAAAAG	AAGAAGGGC	240
GAACTGCTTG TCTTGAGGAG	GTCAACCCCC	AGAATCAGCT	CTTGTGGCCT	TGAAGTGGCT	300
GAAGACGATC ACCCTCCACA	GGCTTGAGCC	CAGTCCCACA	GCCTTCCTCC	CCCAGCCTGA	360
GTGACTACTC TATTCCTTGG	TCCCTGCTAT	TGTCGGGGAC	GATTGCATGG	GCTACGCCAG	420
GAAAGTAGGC TGGGTGACCG	CAGGCCTGGT	GATTGGGGCT	GGCGCCTGCT	ATTGCATTTA	480
TAGACTGACT AGGGGGCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:1019:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 465 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

GAATTCGGCC	AAAGAGGCCT	AATCAAATAG	TAAAGGCTGT	TCTGGCTTTT	TATCTTCTTA	60
GCTCATCTTA	AATAAGTAGT	ACACTTGGAT	GCAGTGCGTC	TGAAGTGCTA	ATCAGTTGTA	120
			TTCTTCTCTT			180
AATTCTTTAA	TTTTGGAAGC	CTATAATACA	GTTTTCTATT	CTTGGAGATA	TAAATTAAAA	240
GGATCACTGA	TATTTTAGTC	ATTCTGCTTC	TCATCTAAAT	ATTTCCATAT	TCTGTATTAG	300
GAGAAAATTA	CCCTCCCAGC	ACCAGCCCCC	CTCTCAAACC	CCCAACCCAA	AACCAAGCAT	360
TTTGGAATGA	GTCTCCTTTA	GTTTCAGAGT	GTGGATTGTA	TAACCCATAT	ACTCTTCGAT	420
GTACTTGTTT	GGTTTGGTAT	TAATTTGACT	GTGCACGATC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1020:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 243 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

GAATTCGGCC	TTCATGGCCT	AGGATTTCGT	ATGCAAGCTC	TTGTTTCTCA	GGCTGCCTGC	60
AGAAGAAGTC	GCTATAAATT	ATCTGTTGTC	TACATGGTAC	AAGGCCCATT	GACTCATCTG	120
ATGCTTGTTT	TGTTAATTTC	TTTAATATTT	TTATCACGGG	GCAGTGGGAG	GGCTTGGGCT	180
TTTAGCCACA	GCTGTTTTAA	GACTTCTGAT	CTCCTGCCCT	GCAGGAATAG	GTGGCAACTC	240
GAG						243

- (2) INFORMATION FOR SEQ ID NO:1021:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 442 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

CTCCACCGAG	AGCCTGGACA	GTATGAAGGC	TCTGACAGCC	GCCATCGAAG	CTGCAAACGC	60
CCAGATCCAT	GGCCCTGCCA	GTCAACACAT	GGGCAATAAC	ACTGCCACCG	TCACCACCAC	120
GACTACCATA	GCCACCGTCA	CCACGGAGGA	CAGGAAGAAG	GACCACTTTA	AGAAAAATCG	180
ATGCCTGTCT	ATCGGGATAC	AGGTGGATGA	TGCTGAAGAA	CCTGACAAAA	CAGGGGAGAA	240
TAAAGCACCC	AGTAAGTTCC	AGTCCGTGGG	AGTGCAAGTA	GAAGAAGAGA	AGTGCTTCCG	300
CAGGTTCACT	CGATCCAACA	GTGTGACGAC	AGCAGTACAG	GCCGACCTGG	ACTTCCATGA	360
TAATCTGGAA	AATTCTCTGG	AATCTATAGA	GGACAATTCG	TGTCCTGGCC	CCATGGCCAG	420
ACAGTTCTCC	CGCGATCTCG	AG				442

- (2) INFORMATION FOR SEQ ID NO:1022:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 274 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAATTCGGCC I	TCATGGCCT	AGATGATCAG	GTTTTTCTGG	ATGGAAATGA	GGTGTATGTA	6
TGGATCTATG A	ACCCAGTTCA	CTTTAAAACA	TTTGTCATGG	GATTAATTCT	TGTGATTGCA	120
GTAATAGCGG C	CACCCTCTT	CCCCCTTTGG	CCAGCAGAAA	TGAGAGTAGG	TGTTTATTAC	18
CTCAGTGTGG G	TGCAGGCTG	TTTTGTAGCC	AGTATTCTTC	TCCTTGCTGT	TGCTCGATGC	24
ATTCTATTTC T	CATCATTTG	GCTCATAACT	CGAG			274

- (2) INFORMATION FOR SEQ ID NO:1023:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 196 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

GAATTCGGCC	TTCATGGCCT	ACTITTCCAG	AAACCAAGAG	TGGCTCTACT	GTGGCTATAT	60
TATTATTGTT	ATTATTATTA	TTTTGGAGAT	GGGGTCTCAC	TTTGTCATCC	AGGCTGGAGA	120
GCAGTGGCAC	CATCATAGCT	CACTACAGCC	CCAAACTGCT	GTGCTCAAGG	GATCCTCCTG	180
TCTCAGCCTT	CTCGAG					196

- (2) INFORMATION FOR SEQ ID NO:1024:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 395 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

${\tt GAATTCGGCC}$	TTCATGGCCT	AATCATTTAT	ATAAAGTTTA	AAAACATTTC	AGAACTGAAC	60
TATATATTTT	TAGAAATATC	TGCATATGCC	ACATAAATTT	TTAAAATCAT	AAGAATGCTA	120
AACAGCACAT	TCAGGACAGG	GTGAAGAAAC	AGGCATGCAG	GTTGTGCAGT	AGGAAGCTGG	180
GTAACATTGT	TCCTTATGGC	TTTGTTGTCG	CTTCCAGAAT	TTCATTAAAA	ACTTTTTAAA	240
AAACATGGGC	CCACATTATG	AATTACGTCT	GCTTTTAGAG	TACTAAAAAC	TCCAAGCAAA	300
AACACATGAG	CCACCGGGCA	CGCCTGGCCT	TTATTTTATT	TTTCTACGTT	ATTATTCCTG	360
TTTTCAGAGG	AGGGAATTGT	CAGGGAACTC	TCGAG			395

- (2) INFORMATION FOR SEQ ID NO:1025:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 429 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

GGAGAGCTCT	GGGCCAGCCC	TTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	60
CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTGTGTGT	GTATATATAT	ATATATANAC	120
TTTTCCCTTC	TGGATGCAAT	AGAGCTATTT	TTTTCTCTTT	GGAATTGÄGT	GACACCACCA	180
AGATACGTTT	TTGGGTTGAA	TATGTGTGTT	TTTCAAAATT	CAGTCTGGCC	TTTTTTGTTG	240
TTGTTGTTGT	TGTTTTCTTT	AGATGGAGTT	TCACTCTTGT	TGCCCAGTCT	GGAGTGCAAT	300
GGCACTATCT	CTACTCACTG	CTACCTCCGC	CTCCCAGGTT	CAAGCAATTC	TCCTGCCTCA	360
GCCTCCCAAG	TAGCTGGGAT	TATAGGCATG	TGCCACCATG	CCCAGGCAGT	TTTTGTATTT	420
AGTCTCGAG						429

- (2) INFORMATION FOR SEQ ID NO:1026:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 407 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

GAATTCGGCC	TTCATGGCCT	AGAGAACTGG	AGCCAGCTGT	CAACTGCCCC	CGCCCCACCC	60
${\tt AGGCCATTTG}$	GCTTCTGCTA	CCGGCATGCT	GCTCAGGGCT	CTGCCCAAGG	ACAACGACGA	120
GCCCCCTGTG	TCCTCTCCTG	GGTCATCTTC	CATGACCCTG	AGGCAGCGAA	GACAAGCTCG	180
GCAGCTCCCT	GAGCTGCTTC	ACACCAACTA	CCTATGAGTC	TGAGGCCAGC	ATCCAGGCGC	240
TGCCCAGACC	CTGAGAGTCC	CTGGACCATG	ACGTAGCCTG	TGTGTGAAGG	GAGCAAGACA	300
GCCTTGACAG	AAGCACAGAG	AACGCCACTG	GGATTCTTAA	AGACGCGAAG	GGAAAAAGCA	360
CAGAAGATGC	TGGCGCTGCA	TCTCCTCCAG	CACCGAGAGG	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1027:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 402 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

GAATTCGGCC	TTCATGGCCT	AAATTAATA	CCTTATTTTT	GCAGATTAGG	AAACTAAGAC	60
GTACTGAGGC	TGGGTGCCTG	GTTCAAGATC	ATATAGCTAA	CATTATTGGA	CATGCAAATC	120
AAGCCCAGAT	TTGTGACTCT	GAGCTGATGT	TAATTCTGTC	ACAATATTGG	TTCTCAAGAT	180
AAATCTTTCC	AGGTGAGGGG	GAAAGGGAAT	AAATATCTAG	AAGTCCCCTT	AAACAGAAGT	240
AATTAATTCG	TTTGCAGAAA	TTGGCAAAAT	TTGGGGTTCC	CTTCTTAAAA	GTTTCCTTCT	300
GTCACTTGGA	AAAAATTTAA	AATATGTGCA	TTAGGTTGAC	AAAGATCAAA	AAAGTTAAAA	360
AAAAACCCTT	TTTGGAATGC	TGTGGAGAAA	GTAGCACTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:1028:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

AAAATAGATT CTGAGGCAGG CATCTCTACT CTACATGGGA	TTCATGGCCT AAGGGGCTGA AATTAAGAAT GTGGCTTTTT TATCCTTTCA ATTTGGCTGG ATGTGGTGGC TCACGCCTGT AATCCTAGCA TTTTGGGAGG CAGATCACCT GAGGTAAGGA GTTCAAGACA AGCATGTCCT GGTGAAACCC AAAAATACAA AAAATTAGCC AGGTGTGGTG GCAGGTTCCT GTAGTCCCAG GGCTGAGGCA GGAGACTCAC TTGAACCCGG AGTGTCTCGA GGCAGGTCTA AGGCCATGAA	60 120 180 240 300 320
(2) INFORM	ATION FOR SEQ ID NO:1029:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 252 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(11)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1029:	
	·	
	GCTCTCATCC CATATCTATT GAGAATGCTG TAGTTGAGGG TTGTTAGAAA ATTAAAATCC CTCCAGGTGA TTCTGATGCA GGCTAGTTCA GTAAACAATA	60 120
	TTCATAAAGA AAACCTCTGG AGGGCCCATA GTGCCTGCAC TCCAGGTCTC	180
AAAGTATACT	TTGAGATCTA GGTTATCTGC CAAGGTGCTA TCCTGAAAGG ACTCTAAATG	240
AGACAACTCG	AG	252
(2) INFORM	ATION FOR SEQ ID NO:1030:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 280 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1030:	
TTGTTTTTAA CATATTTTAT TATCCTCTTA	TTCATGGCCT ACCTTATGGC CTAATTAAAT ATTAGTAATA GGTATTCGAT ATGATTCTT GTAATAGACT ATTGGGTCAG CTAATACTTT TTTGCATCTT GTCATGTTAA TGATAAATTT TCTGACTTTG ATTTGTATGT TTTTGCCCTT GGTGGCCTTG GGGGACTTGC AGGTCTGAGT AGCTTGGGTT TGAATACTAC GAACTACAGA GTCAGATGCA GCATCTCGAG	60 120 180 240 280
(2) INFORM	ATION FOR SEQ ID NO:1031:	
(i) <sup>.</sup>	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 291 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1031:	
GAATTCGGCC	TTCATGGCCT AGAGCAAGTG GTTTTTAAAT ATCTTCGAGC TGAACCTGAG	60
	TTTTAATGAC AGAACCTCCA CTCAATACAC CAGAAAACAG AGAGTATCTT	120
<b>GCAGAAATTA</b>	TGTTTGAATC ATTTAACGTA CCAGGACTCT ACATTGCAGT TCAGGCAGTG	180

CTGGCCTTGG CGGCATCTTG GACATCTCGA CAAGTGGGTG AACGTACGTT AACGGGGATA GTCATTGACA GCGGAGATGG AGTCACCCAT GTTATCCCAG TGGCTCTCGA G	240 291
(2) INFORMATION FOR SEQ ID NO:1032:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:	
TAAAATAATT TAACTTTTT ATTACATTAA AAAACAGGAC TCTGGGAATT GTCACTTTAT GATCAGCCTT ATATTTTTC CAGACTGTGT CATTGTGTAT GCCTGTGCCA CCCAACGGAT GAGACCACCG ATCATGTTTA GCTCAAATTT ATGTTGGATA GAGGTTATAG GATGGTCCTT ATCTGAATGC AGAAAGGAAT GTTTATTTTG CTGTTATGTT TTATATGGGA TAATACTTTA TAATTGTGTG ACTATCCTAT TCCCCAACAA ACTCGAG	60 120 180 240 277
(2) INFORMATION FOR SEQ ID NO:1033:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:	
GAATTCGGCC TTCATGGCCT AGGTTACATG TATAAAATAA TCGTAGCTGT TAATCAAACT GATCATTTGC TATTTGTTGT TTCACATGTT TTCATTTATT TGTTCATTCA GCAAACACTT AGTTGTGGC CAGGAATTAA AATCCAGTGT TGTTCTTTTC TTATTTTTT TTTGGCTAGT GGAAAATGAA AACCACTGTG ACTTTGTAAA GCTGCGGGAA ATGCTCATTT GTACAAATAT GGAGGACCTG CGAGAGCAGA CCCATACCAG GCACTATGAG CTTTACAGGC ATCTCGAG	60 120 180 240 298
(2) INFORMATION FOR SEQ ID NO:1034:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 339 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:	
GAATTCTGGA AGACACTGAC TGACTGGAAG ACCTGGATTT CTTTCTGGAA GACACTGATT GACTGGAAGA CCTGGATTC TTTCTGGAAG ACACTGATTG ACTGGAAGAT CTAGATTTTT CTGGAAGAAC TAGATTTACT GGAAGACTTG GATTTGGTAG AGACACTGAT TAGATTTACT CTACTGGAAG ACCTGGATTT CTTTCTGGAA GACACTGATT GACTGGAAGA CCTGGATTTC TTTCTGGAAG ACACTGATTG ACTGGAAGAT CTAGATTTTT CTGGAAGAAC TAGATTTACT GGAAGACTTG GTAGGCCATG AAGGTCGAG  (2) INFORMATION FOR SEQ ID NO:1035:	60 120 180 240 300 339

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:	
GAATTCGGCC AAAGAGGCCT AGCACTGTAA AGATGAAGCT GGCTAACTGG TACTGGCTGA GCTCAGCTGT TCTTGCCACT TACGGTTTTT TGGTTGTGGC AAACAATGAA ACAGAGGAAA TTAAAGATGA AAGAGCAAAG GATGTCTGCC CAGTGAGACT AGAAAGCAGA GGGAAATGCG AAGAGGCAGG GGAGTGCCCC TACCAGGTAA GCCTGCCCCC CTTGACTATT CAGCTCCCGA AGCAATTCAG CAGAGATCTC GAG	60 120 180 240 263
(2) INFORMATION FOR SEQ ID NO:1036:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 262 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:	
GAATTCGGCC AAAGAGGCCT AAAGCACCCG CTTCCTCACC ACCCCACTG TTGGGCCTAT AGTAGCAGGT TAGTGAGTAC CTAGGGCGGC TCAACTCCTC CCACAGCACC AACCCAGCAT GGTCCCACTG AAGTCCTACT ACGCCCTCCC CTCCCCAGCC TTTTCCAGAA ACCATACTGG GCTCAGATCA GAGCTCCGAA GCGGTCAAAG TGAGCTGAGC	60 120 180 240 262
(2) INFORMATION FOR SEQ ID NO:1037:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 285 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:	
GAATTCGGCC AAAGAGGCCT ACGGAGCTGT CAGCCAGGGG AGTGGGGTCA GCCGTCAGCC AGCCCTCCCG TTTCCCGCCC GTGGGCCCTG ACCACACTCC CTTTTCTAGA AGTCAATCCT AAGGTTTCTC TGCTCTGGCT AAGAGGATGT AAATTTGGAT TCTTAGAGGG CATGGCACCC CCAGTCCCTG CCCAGATAAA GTAGCACCGT GGCATGCAGC ACCTCTGTCT GTTGCTGACG TTGGGGGGCCT TACACACCCA CCTCATCTCC GTGCACAGAC TCGAG	60 120 180 240 285
(2) INFORMATION FOR SEQ ID NO:1038:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 291 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GAATTCGGCC	TTCATGGCCT	AGCTCTGCAA	GGAAGAGAGC	TTCACGTCTC	TGGTCAGCCA	60
AGCGAGGCTG	TCTCTCCAGC	TCTCAGAGAG	CTCTCGGGGC	TCTCCTGCAG	GAGACCAGGC	120
CAATGCTCCT	GTGCTTCCTG	GGGCCAGTAG	CAGCACCCTG	AGCTCCCTGC	CACCAGGCAG	180
CTGAAAGGCA	TAGCGTGAGG	TGCTTCTCTC	AGTCCCAATT	ATGACAGTGG	CCACCGGAGA	240
CCCAGCAGAC	GAGGCTGCTG	CCCTCCCTGG	GCACCCACAG	GACGCCTCGA	G	291

- (2) INFORMATION FOR SEQ ID NO:1039:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC	TTCATGGCCT	AACTCTACAG	CAGTGCTTAT	TTTTACATTT	CCAAGCGAAT	60
ACCAAAACCT	TCAGCAAAGA	TTGGGTTGGT	ATTAACGGGT	TTTTGTCTCA	GAACTGTATT	120
GTGGATCCCG	GAGTTTCCCC	CAAATCCATC	TACATCAAAT	TTGTAGAAGT	AGAGAGGGAT	180
TTTCTTTCCG	CAGGCTCTTT	AGTTGAGTGC	CTGGAAAAAG	CCATTGGATA	CCCCTTAAAA	240
TTTAACAACT	GAATGTCATC	CTTCATAAGG	ATTTGGGCTC	TTAGCTCCTT	CTTCTCTACT	300
CACTTCCCAT	TACCCGGACC	ACCCCTCATC	CAGATGCCGC	CGTCAGACTC	TTCATGGAAA	360
CCCTTTCTTC	AATTGGGCCA	GTACGATCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:1040:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 603 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GA	ATTCGGCC	AAAGAGGCCT	ACCCTACTGT	GACACACCTA	CCATGCGGAC	ACTCTTCAAC	60
CT	CCTCTGGC	TTGCCCTGGC	CTGCAGCCCT	GTTCACACTA	CCCTGTCAAA	GTCAGATGCC	120
AA	AAAAGCCG	CCTCAAAGAC	GCTGCTGGAG	AAGAGTCAGT	TTTCAGATAA	GCCGGTGCAA	180
GA	CCGGGGTT	TGGTGGTGAC	GGACCTCAAA	GCTGAGAGTG	TGGTTCTTGA	GCATCGCAGC	240
TA	CTGCTCGG	CAAAGGCCCG	GGACAGACAC	TTTGCTGGGG	ATGTACTGGG	CTATGTCACT	300
CC	ATGGAACA	GCCATGGCTA	CGATGTCACC	AAGGTCTTTG	GGAGCAAGTT	CACACAGATC	360
TC	ACCCGTCT	GGCTGCAGCT	GAAGAGACGT	GGCCGTGAGA	TGTTTGAGGT	CACGGGCCTC	420
CA	CGACGTGG	ACCAAGGGTG	GATGCGAGCT	GTCAGGAAGC	ATGCCAAGGG	CCTGCACATA	480
GT	GCCTCGGC	TCCTGTTTGA	GGACTGGACT	TACGATGATT	TCCGGAACGT	CTTAGACAGT	540
GΑ	GGATGAGA	TAGAGGAGCT	GAGCAAGACC	GTGGTCCAGG	TGGCAAAGAA	CCAGCATCTC	600
GA	.G						603

- (2) INFORMATION FOR SEQ ID NO:1041:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 292 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

SAATTCGGCC TTCATG	GCCT ATAGAAACAT C	AGTGGGCAC .	ATTTACAACC	AGAATGTATC	60
CAGAAGGAC TGCAAC	TGCC TGCACGTGGT G	GAGCCCATG	CCAGTGCCTG	GCCATGACGT	120
GAGGCCTAC TGCCTG	CTGT GCGAGTGCAG G	TACGAGGAG	CGCAGCACCA	CCACCATCAA	180
GTCATCATT GTCATC	TACC TGTCCGTGGT G	GGTGCCCTG	TTGCTCTACA	TGGCCTTCCT	240
ATGCTGGTG GACCCT	CTGA TCCGAAAGCC G	GATGCACAC	ACTGAGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:1042:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 331 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAAGAAAAGC	AGAAAGAACT	GGCAGAAACA	GAACCCAAAT	TCAACAGTGT	GAAAGAGAAA	60
GAAGAACGAG	GAATTGCTAG	ATTGGCTCAA	GCTACCCAGG	AAAGAACGGA	TCTTTATGCA	120
AAGCAGGGTC	GAGGAAGCCA	GTTTACATCA	AAAGAAGAAA	GGGATAAGTG	GATTAAAAAG	180
GAACTCAAGT	CTTTAGATĆA	GGCTATTAAT	GACAAGAAAA	GACAGATTGC	TGCTATACAT	240
AAGGATTTGG	AAGACACTGA	AGCAAATAAA	GAGAAAAATC	TGGAGCAGTA	TAATAAACTG	300
GACCAGGATC	TTAATGAAGT	CAAAGCTCGA	G			331

- (2) INFORMATION FOR SEQ ID NO:1043:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GATGGCCACT	TCCCAGGCTG	ACATAGAGAC	CGACCCAGGT	ATCTCTGAAC	CTGACGGTGC	60
AACTGCACAG	ACATCAGCAG	ATGGTTCCCA	GGCTCAGAAT	CTGGAGTCCC	GGACAATAAT	120
TCGGGGCAAG	AGGACCCGCA	AGATTAATAA	CTTGAATGTT	GAAGAGAACA	GCAGTGGGGA	180
TCAGAGGCGG	GCCCCACTGG	CTGCAGGGAC	CTGGAGGTCT	GCACCAGTTC	CAGTGACCAC	240
TCAGAACCCA	CCTGACGCAC	CCCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:1044:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 391 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GTCATTGCAT CCAAGATAA	T GAAATATCTA	ΤΑΛΟΟΟΟΑΑΑ	ACTITICCTOT	GTGCCCTTCT	60
TATTCATTGC CCTGCCCAG					120
TGCATTTTCT ATAAAGTCT	T ATGAATGAAA	TAATAAAATG	TGGACTATTT	TCATGGGCCG	180
GGGAGCAGTG TGGCTTCTT	T CATTTCAAAT	GATTGTTTTG	AAATTCATCC	ACAGCGTTGC	240
ACGTATCAGT AGTAGATTC	C ATTTGATTGT	TGATTTGTAT	TCTATTGTAT	GCCTGAGTCA	300
AAATTTATTC ATCTCTTTG					
			ICIICCAGII	IGGGGCCATT	360
ACAAATAGAG GTACTATGA	A CTTTTCTCGA	G			391

- (2) INFORMATION FOR SEQ ID NO:1045:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 288 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

-	GAATTCGGCC	TTCATGGCCT	AATGTGAGCC	ACCGCACCCA	GCCGAATATT	TGTACTTTGT	60
4	ATAAATTCAT	TGTCTGTTTT	ACAGTTTGAA	TGGCTCTTTT	ACCCTGGCAT	AATTTTGTAA	120
1	CGTGTGGAGC	ATTTGGAAAA	TTTTTTTTGG	ATTATGCAGA	TATTTTCAAT	GCTGGTATTT	180
						TTTTCTTTTT	240
•	TTTTTGAGGC	AGAGTTTCGT	GCTTGTCGCC	CAGCCGAAGG	CGCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:1046:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 279 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCGGCC TTCATGGCCT AGTAACT	TCA TAACATTGCT GGTGTTGAGG TGAATCTTAG	50
TGGTCATCCA GTCCCAAGGC ATCCTTG	SCCA GCCCCTACA ATACCTGGAT GGGCGCTTAT 1:	20
CTTCAGGTAG GCCTGAGCCT TTCTGGT	AAA GAGGAGCTCA CTATTTCTAA AGGAAACCTG 18	80
TGCCATTGGG TTAAAAAAGT ATTAATT	TTT AAACATTGGT AGTTGTTAAG CAGTTGTTGA 24	40
ATATTTTGAG CCAAAATTTG TTACCTC	CCA TACCTCGAG 2	79

- (2) INFORMATION FOR SEQ ID NO:1047:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GAATTCGGCC TTCATGGCCT AGCAGCATTC AAGGAATTAA TATTAGTCAC TGAGAACAAA

AAGCGAAATT AGAAAATTTC AAGTCACTTC TAGGCTTGTA GGGGAGAAGA CGTGTAGTGA

TGAATTCTAT CATTTATGAA GTACCCACTG GATCCCACAC ACTGTGCAAG ACCTTTAGAT

60

120

180

${\tt TTTTTTTT}$	CCTCGGTTTT CTTCACCCTG TGCAGCAGGT GCTGTTATTT CCTTTTTTAA ATTATTATTA TTTTTTGAGA CAGGATCTCC CTTTGTCACT CAGGCTGGAA TGATCACTGC TCACTGCAGC TTCGACCACC CGATCTCGAG	240 300 350
(2) INFORM	ATION FOR SEQ ID NO:1048:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1048:	
TCAACTTAAA TTTTATAGAG CGATCCTCCC GTTCTCAAAT	TTCATGGCCT AAAGCTTTTC AGTACTGTTT ACAAATTTGG TTTTATTGTG AGCATGAGTC TAAATCTATT AGTCATACCA AATTGTTTCA TTTTATTTTA	60 120 180 240 298
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(i.i)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1049:	
AAAAAGTAAC ACATGAGATG TGTGCCAAAA AATAAAGTTT	TTCATGGCCT AGAGCTTTGG TGCTTTTCAC ATAAGGAACT TACTTGGGCT CTCAGAGAAA CAGTGCTCCC ATTTGGTGGA TAAGGAAACT GAGGTTCCAA TAATAGCTTG CCCCAAATCT AGCCAGTGAG CAAGAGAGGTA GACTTTTGCC CAGTAATCAC CATCCACAAG TGGCTATTTA AATTTAATT ATTACAATTA AAAATCCAGT TCCCCAGTCC CACTGGCAAC TTAACAGCTA CCAGTGACTG AACAGCATAT ATAGACATAC AGCATATACA ACACATACAT AGGGATTCCC	60 120 180 240 300 360 367
(2) INFORMA	ATION FOR SEQ ID NO:1050:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 367 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1050:	
	TTCATGGCCT ACAATTTAA AATTAAAATT TTTTCTATTT TTTTGCAATT	60

GAGTTACACT	AAAATGTTCA	TAGTCAGTAA	TATAGTCTTT	CAGATTTTTT	TTTCTGTGTC	180
TGTCTGCTGT	CTATGTCCAT	GCCTACCTTA	CTTTCTTCCC	TCTCTCTTCC	CTCCCCACCC	240
					CCTCCCTTCC	300
TGCCTGCCTC	CCTTCCTGCC	ACTTACATTC	TGTTAACAAT	GAGAAAAAA	TTCCCCCATC	360
ACTCGAG						36 <b>7</b>

- (2) INFORMATION FOR SEQ ID NO:1051:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 340 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

GAATTCGGCC	AAAGAGGCCT	AAGAAGACCT	CAGCCTTCGC	CTGAAAAAGC	TGACTCACGC	60
						120
GCAGATGGTG	GAAATCCTTC	ACAAACACAA	TATTCAGTTC	AGCAGCTTTG	ATATCTTCTC	180
						240
						300
						340
	TGCCCCTGC GCAGATGGTG AGATGAAGAA CTATGTTTCT	TGCCCCCTGC ATGCTGTTCA GCAGATGGTG GAAATCCTTC AGATGAAGAA GTTCGACAGG CTATGTTTCT GGAGAGCTAA	TGCCCCCTGC ATGCTGTTCA TGAAGGGAAC GCAGATGGTG GAAATCCTTC ACAAACACAA AGATGAAGAA GTTCGACAGG GGCTCAAAAC CTATGTTTCT GGAGAGCTAA TAGGAGGACT	TGCCCCCTGC ATGCTGTTCA TGAAGGGAAC ACCTCAAGAA GCAGATGGTG GAAATCCTTC ACAAACACAA TATTCAGTTC AGATGAAGAA GTTCGACAGG GGCTCAAAAC GTACTCTAAT CTATGTTTCT GGAGAGCTAA TAGGAGGACT TGACATAATT	TGCCCCCTGC ATGCTGTTCA TGAAGGGAAC ACCTCAAGAA CCACGCTGTG GCAGATGGTG GAAATCCTTC ACAAACACAA TATTCAGTTC AGCAGCTTTG AGATGAAGAA GTTCGACAGG GGCTCAAAAC GTACTCTAAT TGGCCCACCT	GAATTCGGCC AAAGAGGCCT AAGAAGACCT CAGCCTTCGC CTGAAAAAGC TGACTCACGC TGCCCCCTGC ATGCTGTTCA TGAAGGGAAC ACCTCAAGAA CCACGCTGTG GTTTCAGCAA GCAGATGGTG GAAATCCTTC ACAAACACAA TATTCAGTTC AGCAGCTTTG ATATCTTCTC AGATGAAGAA GTTCGACAGG GGCTCAAAAC GTACTCTAAT TGGCCCACCT ATCCTCAGCT CTATGTTTCT GGAGAGCTAA TAGGAGGACT TGACATAATT AAGGAGCTGG AAGCATCAGA AGAGCTGGAC ACGATCTGTC CCAAAGCACC CAATCTCGAG

- (2) INFORMATION FOR SEQ ID NO:1052:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

GAATTCGGCC	TTCATGGCCT	ACTATGGACA	GCCACAGNTC	TTCCCAGGAC	AAGACCCTGA	60
CTCACCCCAG	CATGGAAACT	ACCAGGGAGG	GAGGGTCCCC	CATCCTACTA	TGACAACCAG	120
GACTTCCCTG	CCACCAACTG	GGATGACAAG	AGCATCCGAC	AGGCCTTCAT	CCGCAAGGTG	180
TTCCTAGTGC	TGACCTTGCA	GCTGTCGGTG	ACCCTGTCCA	CGGTGTCTGT	GTTCACTTTT	240
GTTGCGGAGG	TGAAGGGCTT	TGTCCGGGAG	AATGTCTGGA	CCTACTATGT	CTCCTATGCT	300
GTCTTCTTCA	TCTCTCTCAT	CGTCCTCAGC	TGTTGTGGGG	ACTTCCGGCG	AAAGCACCCC	360
TGGAACCTTG	TTGCACTGTC	GGTCCTGACC	GCCAGCCTGT	CGTACATGGT	GGGGATGATC	420
GCCAGCTTCA	ACAACACACT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1053:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 358 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

GAATTCGGCC AAAGAGGCCT AGATATTCAT TTCCATTGGA GCTGGTATTT TTAAGGTCTC

GTGACGTCAG TGACCTCATT TTACTTGATC TATTAGCAGC ATTTCATACA GTTGTTGACT	120
CTTCTCCATT AAAACATTTA CTTTATTTGG CTTCTAGGAA ACATATTTTC CTGCTTTTTC	180
TTCCTATTTC TCTGACTCTT TTCTCAGTTT CCTTTGCTGT TTCCTTTTCT ATCCTCTAAA	240
CATTGAAATA TCCTAAGCCT AGTTTGGGAT TCCCTTGATG GTCTTCATTT CTTTAATGGG	300
AACTGTGCTG GTGACTCAAA TTTATATCTC CAGCCAGAAC CTTTCTCCTG AATTCCAG	358
(2) INFORMATION FOR SEQ ID NO:1054:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 386 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:	
CCTTCATGGC CTACTTCTGG TATTACATCA CACTGATCAT GCTGCTGGTG GCCGTGCTGG	60
CCGGAGCTCT CCAGCTGACG CAGAGCAGGG TTCTGTGCTG TCTTCCATGC AAAGTGGAAT	120
TTGACAATCA CTGTGCCGTG CCTTGGGACA TCCTGAAAGC CAGCATGAAC ACATCCTCTA ATCCTGGGAC ACCGCTTCCG CTCCCCCTCC GAATTCAGAA TGACCTCCAC CGACAGCAGT	180
ACTICITATAT TGATGCCGTC TGTTACGAGA AACAGCTCCA TTGGTTTGCA AAGTTTTTCC	240 300
CCTATCTGGT GCTCTTGCAC ACGCTCATCT TTGCAGCCTG CAGCAACTTT TGGCTTCACT	360
ACCCCAGTAC CAGTTCCAGG CTCGAG	386
	500
(2) INFORMATION FOR SEQ ID NO:1055:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 104 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:	
CGATTGAATT CTAGACCTGC CTGTGCTCCT CGATGGTGTC TCTCCCTCCA GAAAACGCAT GCTTATTGAC CTTGGTTTTG ATCTGCTTGG CCGTGTCGCT CGAG	60 104
GETTATIGAE CTTGGTTTTG ATCTGCTTGG CCGTGTCGCT CGAG	104
(2) INFORMATION FOR SEQ ID NO:1056:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 650 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:	
CARTICOCCC ANACROSCO ACACAROCO ASSOCIANTES CARRANASCO ASSOCIACIO	60
GAATTCGGCC AAAGAGGCCT ACACAAGGCT AAGGGTATTG GATATAACGG AAAGTGGAAG CTATACCTGA CTTCCAGAGA ATGTGGACCG GATATAAGAT CTTAATCTTC TCTTATCTTA	120
CTACAGAAAT CTGGATGGAG AAGCAGTATT TATCTCAAAG AGAAGTGGAC CTAGAGGCTT	180
ATTTCACTAG GAATCACACC GTTTTGCAAG GTACTCGATT CAAAAGAGCC ATTTTCCAAG	240
GGCAATACTG TAGAAATTTT GGCTGTTGTG AAGACAGAGA TGATGGCTGT GTCACTGAGT	300
TCTATGCGGC GAATGCGTTG TGCTACTGTG ATAAATTCTG TGACAGAGAA AATTCTGATT	360

AAGAAAACTG GCCTTGTTCG	AGAAGGTTGC TTCAAAGATG GTCAACATTA TGAAGAGGGA TCAGTAATTA CAACTCCTGC ACATGCTCAG GACAGCAATG GAAATGTTCC CAGCATGTAT TCCAGAATTA ATTGAACAGG TCAATAAAGG AGACTATGGA TGGACAGCAC CCAATTTTGG GGAATGACTT TAGAAGATGG ACTCCTCGAG	420 480 540 600 650
(2) INFORM	ATION FOR SEQ ID NO:1057:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 378 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1057:	
GATCCGCCGG CTGAGAATAG TGTTCTGGAC GCGGGGGATA	AAAGAGGCCT ACACGTATTG GCCAGGATGG TCTTGATCTC CTGACCTCAT CCTTGGCCTC CCAAAGTGCT AGGATTACAG GCGTGAGCCA TCGCGCCCAG TTTTAAGAAT TGGTTGAGAG GCAGTTGCTT TTTCTTTGAA TATCTAGAAC TAACGTCAAA GAAACACCAT GGCAACATTA AAGGGAAGAT TATTTGAGAG GTATGGCTTA GGACTTGGGC TGCTACCTTT GACTTTGTAA TTCAAAAGAT CATATTTTCA ATCTGATCAT TAAAAATATC TGTGTTACAT GCAAAAAAAA AACTCGAG	60 120 180 240 300 360 378
(2) INFORMA	TION FOR SEQ ID NO:1058:	
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 259 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1058:	
CTCCTAGTTA TTGTCATATC	TTCATGGCCT AATTTTAACA TTTACATAGA CAATTCATTT GGTGTTTTGT TTTGGCCCAA TCTCTGATGA TTTCCACTCT GTCTTGGCCA CTCACTCCGT TTGGCCATTA TCATCACCTC AAATTGCTCC ATCTTCAAAA TACTTGCATC ACCATATTCC TTCCACTTGG TTTATTGAAC TATTCCCTCT ATCATTCTCT CAGCCCAATG	60 120 180 240 259
(2) INFORMA	TION FOR SEQ ID NO:1059:	
	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1059:	
TTTTTGAAA	ACTAACCACT GCAAGCTCTT GTCAAATTTT AGTTTAATTG GCATTGCTTG CTGAAATTAC ATGAGTTTCA TTTTTTCTTT GAATTTATAG GGTTTAGATT GCATGAATAT ATCACCTAAC ATCCTGACAA TAAATTCCAT CCGTTGTTTT	60 120 180

TTTTGTTTGT TTGTTTTTC TTTTCCTTTA AGTAAGCTCT TTATTCATCT TATGGTGCAG CTCGAG	240 246
(2) INFORMATION FOR SEQ ID NO:1060:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 103 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:	
GAATTCGGCC TTCATGGCCT ACGAGAGTAT ATTGGTAGGG CTGGAATTTC TGGTTCATAT GGTAACTAAC TCTATGTTGA ACATTTTGAG GAGCCCTCTC GAG	60 103
(2) INFORMATION FOR SEQ ID NO:1061:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 361 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRÍPTION: SEQ ID NO:1061:	
GAATTCGGCC TTCATGGCCT AAAAGGTTAG GCAATCACTG GGACCCGCAT GGTGTTCCTC CAAAGAATAG GGTAAAGGAG AGCTGGGAGG GAGCCCTCTC CGTTGGGTGA CTCTTGTGTG CCCTTTAGAC AGGCTGGCCT GCCGGTTCCA CAGGGTACAG TTAGGACTTG AGTCTTTCTT TTTCTGTTTT GAGTTGGTGA GTGAGTGATA GGGTAACATG GGCCTTCAGG ATGACCCCTT GGAACTGTGC CGAGTTCCTT AAATCTCAGC TGGGATCCTG GACCTGGGAG GCCCCTGTGA GGGCCAGCTC TGGAAAAACC TGGGAGTTGA TGCCGGAGGC TGTGGAAGAA CTCTGCTCGA G	60 120 180 240 300 360 361
(2) INFORMATION FOR SEQ ID NO:1062:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:	
GAATTCGGCC TTCATGGCCT AAGAAAAATT GGGAACAAGC TAAGTGCCCA CATAGTTACA AAAATTACGT TAAATAGATA CACGGTTGCT TTTAAGCTCC ACATACAGCA CCATAGAGCT TTTTATATAT TTGTAGGCAT TAAAGCAATT CCAGGAAGGA TCTAAACCAA ACACTTGACC CAGGTTGTCT CTCTGGGGAG TGGAGCCACA TGGGATTTCA CTGTTTCTGT ATTCTTATTA CTTATATAA AACACACATG AACAGAAGAA AAAATAGCCC CAGTATCTCG AG	60 120 180 240 292
(2) INFORMATION FOR SEQ ID NO:1063:	
(i) SEQUENCE CHARACTERISTICS:	

<ul><li>(A) LENGTH: 331 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:	
GAATTCGGCC TTCATGGCCT ACCGTTGTTA CACTTCTGGA CACAAGTTGG GCCGAAGTAA GCCAAGCCCA GTCCTTCCTG TTTCCTTTCT CAGGAAATGT GACCACGTGC ACTGGGAAGC TTTGTGTAAA GTAGATAGGG GTATGAGCCA ATTGCCCAGC ATTGGTGTT TGTTTTTTGT TGTTTTGTTT GTTTTCACAG AGTCTTGCCC TGTCACCCAG GCTGGAATGC AATGGCGTGA TCTCAGCTTA CTGCAACCTC TGCCTCCCAG GTTCACACAA TTCACCTGCC TCAGCCGCCT GAGTAGCTGT GATTACGGGC ACCGTCTCGA G	60 120 180 240 300 331
(2) INFORMATION FOR SEQ ID NO:1064:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 136 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:	
CGAGTGTTAC ATTCGTTCTT CCGCTCAAAT CCTGATCTGG TCCATTAAAG AGTGTTCGCA GACAAAGTTT CTGAAAGATT AGAGAAGAAT CCCCCAAGAA TCAATTACAA CCAAAATGGA AAGGGACAAC CTCGAG	60 120 136
(2) INFORMATION FOR SEQ ID NO:1065:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 255 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:	
GAATTCGGCC TTCATGGCCT AGAATAAAGG AAAATTCAGG TCATAGATTG AGTGCTATAT TTGAAGTAAA TACAGACCTT CAAAAAAATA TAATATCAAA AATCACTGCT GAGCTCTCCT GGCCTTCCAT ACTTAGCTCA CCCCGGCACT TGAAATTTCC ACTTACTAAT ACAAACTGCT CCTCAGAAGA AGAGATTACT TTAGAAAATC CTGCAGATGT TCCTGTCTAT GTTCAGTTTA TTCCTCTGGC TCGAG	60 120 180 240 255
(2) INFORMATION FOR SEQ ID NO:1066:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 379 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
446	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

GAATTCGGCC	TTCATGGCCT	ACAACCTGCT	TTCCXCCTTC	тата атетес	<b>ሮስጥሮ</b> አርጥር አጥ	60
	TCAGCTTTCC					
						120
CTTATTTCCT	TTTCTGTTTA	TTCCTGTGAC	CTTGTGCCCT	TTAATTCTTT	CCCATAATTT	180
GTTGGGACTT	CAGAAGGAAG	TGGAGCTAAA	GGCATGTGTC	TGCCTGCCCC	ATCTTGGCTG	240
GAAGTTGGGA	AGGCCTTCCT	TCCAAGGCAC	CCAGCATAGC	ACCTGGCACA	TGATGGATGC	300
TCAGCAAATG	TCTGTGGGTC	TTCTTTTTAC	TAAACAGGCA	GTTGATTTCA	CCAGAAGTAG	360
TGACCACCTA	AGTCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:1067:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 316 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

120
180
240
300
316

- (2) INFORMATION FOR SEQ ID NO:1068:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 299 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

GCGATTGAAT	TCTAGACCTC	ACCTCTGATC	TATCTCTTTT	ACCTCAGCAA	TTTATTTCCC	60
ATTATTATA	TCTACTTTAT	TGTTCTTATG	AGACAATAGA	CTATGATAAT	TTTCCAGAAA	120
TAATTTTGTT	TTCTTCCTCC	CATCTTCTAA	TGTTGAGACC	GTTTCTCTGT	TTTCTTTCAT	180
TCTACCCCT	CAGTCTCATA	GGTTTATTTC	TCATTTCCAA	TCCAGCGATT	TCAAAACCTG	240
CAAAAAAC	CAACTCAGCA	GCCCTTGGCA	ACTTGAGGAG	ATTTCACAAA	CCACTCGAG	299
	ATTATTATA TAATTTTGTT TCTACCCCT	AATTATTATA TCTACTTTAT CAATTTTGTT TTCTTCCTCC TCTACCCCT CAGTCTCATA	NATTATTATA TCTACTTTAT TGTTCTTATG TAATTTTGTT TTCTTCCTCC CATCTTCTAA TCTACCCCT CAGTCTCATA GGTTTATTTC	ATTATTATA TCTACTTTAT TGTTCTTATG AGACAATAGA TAATTTTGTT TTCTTCCTCC CATCTTCTAA TGTTGAGACC TCTACCCCT CAGTCTCATA GGTTTATTTC TCATTTCCAA	ATTATTATA TCTACTTTAT TGTTCTTATG AGACAATAGA CTATGATAAT TAATTTTGTT TTCTTCCTCC CATCTTCTAA TGTTGAGACC GTTTCTCTGT TCTACCCCT CAGTCTCATA GGTTTATTTC TCATTTCCAA TCCAGCGATT	ACTIONAL TOTAGACCTC ACCTCTGATC TATCTCTTT ACCTCAGCAA TITATTTCCC ATTATTATA TCTACTTTAT TGTTCTTATG AGACAATAGA CTATGATAAT TTTCCAGAAA CAATTATTTGTT TTCTTCCTCC CATCTTCTAA TGTTGAGACC GTTTCTCTGT TTTCTTTCAT CTCTACCCCT CAGTCTCATA GGTTTATTTC TCATTTCCAA TCCAGCGATT TCAAAACCTG CACAACAAAC CAACTCAGCA GCCCTTGGCA ACTTGAGGAG ATTTCACAAA CCACTCGAG

- (2) INFORMATION FOR SEQ ID NO: 1069:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 256 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

ACGTAGGGAT CTGCGTCTGT	TTCATGGCCT ACCATTTCA CAACCATTT AATCTGCGCA TCGGTCCCAG TCCTCGTCTC ATCTTGGAAA CATTGCCAGC AGTGGTTCTG ATTTGGAAGC CACGTGACAC CGTCTGAGCC TGTGCCTGCC TCTCTTTCTT CCGGCAGTGC GTGGGGATGA CGGCAGTGGG CCTGGCCATC CTGTGGTATG TTTTCCGTCT CTCGAG	60 120 180 240 256
(2) INFORM	ATION FOR SEQ ID NO:1070:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 321 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1070:	
TCTAGACAGA AAGTGCTCAC CCCCTCCTCC TTTCTCTTTA	TTCATGGCCT AGCCATCATG TTTATTAGAA GGTTGGATTT TGGTGTGTGC TACAGAATAA ATACCTGCGC CTTGAGAACA GGAAGTCCAC GATTCATACA TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGGCAG CTGCTGACCT CAACAAGGGC TGTGCTATTG TTTTTTATTT TATTATTTTA TTATTATTAA TATTATTATT ATTTGCTTTT GCTGTGGTCA CTATCATTGG TTTCCCTCGA G	60 120 180 240 300 321
(2) INFORMA	ATION FOR SEQ ID NO:1071:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1071:	
CATAGTCAAC AGAATCCAAA AAAATTCCAC	TTCATGGCCT AGGGAGGTAT TTGTCATTGT GAAAAGCTGG GAATCTCAAA TTAACTAAAA AGAAGCTAAT ACAGGTTGAG CATTCCTAAT CCAAAAATCC TTGCTCCAAA ATCTGAAACT TTCTGAATGC TGACCTGATA CTACAAGTAG ATACAAGTAC TTAACACAAA CTTTGTTTCA TGCACAAACT ACTAAAAATA TTAACCTCGA G	60 120 180 240 261
(2) INFORMA	ATION FOR SEQ ID NO:1072:	
(i) <sub>.</sub>	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 304 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1072:	
GGTGGCCATG GGCCGAATTT	TTCATGGCCT ACTTGGGCTC ATTTTATTTG GTGAATTTGA TCCTGGCTGT GCCTATGAGG AGCAGAATCA GGCCACCTTG GAAGAAGCAG AACAAAAAGA CAGCAGATGC TCGAACAGCT TAAAAAGCAA CAGGAAGAAG CTCAGGCAGT TCAGCTGCTT CAAGAGATTT CAGTGGAATA GGTGGGTTAG GAGAGCTGTT	60 120 180 240

GGAAAGTTCT TCAGAAGCAT CAAAGTTGAG TTCCAAAAGT GCTAAAGAAT GGAGGTCCCT

300 304

(2) INFORM	MATION FOR SEQ ID NO:1073:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 397 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	) MOLECULE TYPE: cDNA	
(xi)	) SEQUENCE DESCRIPTION: SEQ ID NO:1073:	
TTATAAGTTG TTTCAGTGGA GGTAAGAAAA ATCTTCATCC CCCTCAGGTT	TTCATGGCCT AAAAAAGCTA ATGTCATAGG TCTTTATATG TGGGCAGGGT TCTPAAGGGC CATCAGGTAG AGTTGGCCTT TTCTGTTGAG GTCCCCTAAA GGTCTTCTCT TTGGGGCCAG TTTCTCTAGA AAACTGGGTC CTGATAGTAG GACAGCTGAG GACCCCAAGA TTTGTATGAT GACTTTTACT TAATCCCTCT TCTCTCATGC CCATCCGCC CCACCCCCA AATCCTCCTC TGGCTGCTGA CAGTTTTTCC TGTCAGTGGA GGTTGAGGGT GGGGCGTAGG CTGGCTGTGG AGAGGACCTG GGTTCCAGTA GCTCGAG	60 120 180 240 300 360 397
(2) INFORM	ATION FOR SEQ ID NO:1074:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 309 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1074:	
AGAAGCATGA CTTCAATCTA CCTGGCCCAG	TCTAGACCTG CACCACTGCG ATCCCTACGC CTGAGGAAAT GACAAGATTG ACAGACAACT CCAGATAAAT GTTGACTGTA CACTGAAAGA AGTTGACCTC GAGGAAACT TGATCCAAAA GCCATGAATA ATTTTTATGA CAACATAGAA TTGTACCACC CAAGCCATCT AAAAAAGACT CCTCAGACCC CTGCACAATT CCCGAAGAAT TAGCGTGACC TCCAAAGTAC AGGCAGACAT CCATGACACC	60 120 180 240 300 309
(2) INFORM	ATION FOR SEQ ID NO:1075:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 243 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1075:	
ATAAATCTTT TTGACTATTG	TTCATGGCCT AGAAAACTAA ACATTTGCCT TTTATAAAGA CTGACAAAAT ATTCTAACCC TATCCCCAAA ACTAGCCAGG CCACACCCCA GATGTTCTTA GGAAGATAGA AAAGGCGTTG TGTTTTTTGT TTTTTTGTTG TTGTTGTCAT TCAGAAGACC AGTGTCTCAG TTCTGTCTTA GTAGTACCAC ACCACGACTC	60 120 180 240 243
	449	

- (2) INFORMATION FOR SEQ ID NO:1076:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 598 base pairs

    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

CTCGAGCTGG	GGGCCACTTT	GGCACCTAAC	AAAACCAGAG	AAAACAAGTG	CAACTAAGCA	60
AGCAACTATG	CACATTCCAG	ACATAAAGAT	CATTAATAAA	CGCCTTAATC	TAAGGATCTG	120
TTGGTTCTAA	CGCCAGAAAA	AGAAGTTAAA	TTTTAAAAAA	TATCTAAAAG	AGATTTTAAG	180
TGGGCAAGCA	ATAGAGAAGA	TACCCAACAC	TGAGAAACGG	AAAGGAAAAA	AGACCACCCT	240
AATAACTACT	GCTCATCAAT	ATACATCTAT	AATTCTACCA	GAACAGTATT	AAGAAATGAG	300
AAACGCCAAT	ATTACATAAA	ATAAGGTAAA	AATAACTAAG	CATAGGTTAG	TGTCAGGGGA	360
CCTAGGGTTC	AGACACCCAG	AGTTTTATAT	AAGGATAATT	TGTCCTGAAT	CAAGACCACA	420
CTGTCCTCTC	CTTAAACCTA	ACTGCTACAA	GCAGACACCA	CCTCTTCTGA	CTGGGCTGAA	480
GTGTGGGAAA	${\tt CAGTCCAAAA}$	ATTAGGTATC	ACACCATAAA	CCCTCCACAA	GAGCAACCTT	540
TGCTCTCAAT	${\tt TAAGTTGTTG}$	ACAAAATAAT	TCTCAACTTG	CCTAGGCCTG	CCGAATTC	598

- (2) INFORMATION FOR SEQ ID NO:1077:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 346 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: CDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

GAATTCGGCC	AAACACCCCT	AGGTGGGTAT	TITLE & A TICHTON	mmc cmccan n n	A TITLE A A CITE A	60
						60
CATTGTTGAT	ATGACATGAA	ACTAGCTGCA	GCAAAAAATC	CAGATACAGT	AGATGAAAAG	120
ACTTGCTTTT	CAGGAGGCAG	CTGGTTGCCA	TTTAAAAAAGA	AGATCATTTG	CTTTTCATTC	180
AAGTCTAACA	GAAATCCTAC	TGTATCTCCT	TCTTTCCAGC	ATGGGTGTAT	GTGAGGCTTA	240
CTTCTGGCAT	TGTACCAAAT	CAGCTGCCGG	CAGCCATCAT	ACGCACAGGA	GTATTCATCA	300
TCCCCAATGC	CGTAGCCTTC	ATGATTGAGG	AATTTGCTGT	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:1078:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 419 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

GAATTCGGCC	AAAGAGCCTA	GCTCCTGTTA	CCATTATTAT	TATTCATACT	CATATTCATT	60
ACTTCTAACT	TCAAGTGGGC	CATTAGCACT	AACTGGCATA	CCACACTTCT	CTAGTCTATT	120
TATTCTCCTT	GATGACTATT	TCATACCCTT	CCCTCTTTCC	CCAAACTTCC	AACACCTCCT	180
CTTCCCATCA	TTCTCAGCTG	ACGGCCTTGC	TTTCTCCCAT	GATTGGGACT	AGAGAAGCAA	240
TTTGTAGGGA	ATTTCCACAA	GCTCCATCAC	ATGTGGCCAC	TCATCTACAT	CTGGATCCAT	300

CTATTTGGCC TTCCCTATTG TTCTTATACA CTCTCCCTGT CTTACTTTAT CTAAGGTCAA

CATCTCCACT CCACTTATGC ACTAGATCCT GGCATTACAC CAGCAATCCT CACCTCGAG

360

419

(2) INFORMATION FOR SEQ ID NO:1079:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 261 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(b) Toronogi. Illigat	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:	
GAATTCGGCC TTCATGGCCT AGCTTATTCT TTTTTCTTTT TCTTTTTTTTT TTTTTTTT	60 120 180 240 261
(2) INFORMATION FOR SEQ ID NO:1080:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 208 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:	
GAATTCGGCC TTCATGGCCT ACATTAACAG ATTAATCCAT CTGTATAGGG CTTTTGCTGT TGGATAGAAT TTAAATTGTC TACATAAATA TTTGTTTTAG GACCCTTAGA TTTTATCTGA ATACACAGAT TAGGCTTTAA AAACAGATAT ATATGTCATT TTTGGCTTAA GGAGTTTGGC TAAGTTAGCT TTTCAACTGG TTCTCGAG	60 120 180 208
(2) INFORMATION FOR SEQ ID NO:1081:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 425 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:	
GAATTCGGCC TTCATGACTC CTGATTCAGG GGTCAGTTTA CTTCATAAAA AATCATTAGA AAAGGAAGAA TTATGCCAAA GACTTAAAGA ACAGTTAGAT GCTCTTGAAA AAGAAACTGC ATCTAAGCTG TCAGAAATGG ATTCTTTTAA CAATCAACTA AAGGAACTGA GAGAAACCTA CAACACACAG CAGTTAGCCC TTGAACAGCT TTATAAGATC AAACGTGACA AGTTGAAGGA AATTGAAAGG AAAAGATTAG AACTTATGG GAAAAAGAAA CTAGAAGATG AGGCTGCAAG GAAAGCAAAAG CAAGGAAAAA AAACCAAAAAG CGACTCCAGG AAGCCAAGAC ACCAGNAAAA ATTCCAAGAA GAGGAACGTC TCGAG	60 120 180 240 300 360 420
451	

- (2) INFORMATION FOR SEQ ID NO:1082:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 299 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

GAATTCGGCC	TTCATGGCCT	AAGACTTCTT	GCAGGAAAAA	TGAGTGCATT	GAGGATAGTA	60
					CTCTCCCAGG	120
		AGGACTTGGA				180
		ACAGCCCTGG				240
GATATCCAGC	AAGGACCTGG	CACTGTCTAG	TGAGGACGAG	GCCTGCACAG	GATCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:1083:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

${\tt GAATTCGGCC}$	TTCATGGCCT	AAGTCACTTG	TGTAACGTAG	TTATACTTTG	CTGCATTNTA	60
ATTAACCTTC	AACAGCTATT	AAAGTGGAAT	GTAAGTTAAA	TTTTGAAGGA	AAGGAAATAA	120
ATGTTTTCCA	TATTTCGTCT	TGATTTACTT	TCTGTATGAG	AACAGCTGTG	TTTTTGATAG	180
GTTTATGGTT	TGCATGAGTT	CATATTTAAA	GTGATCCAGG	CCAATGCATG	GCTATTGCTG	240
		TGCCTTGTAA				300
ATTCAGTAGA	CAAATTAATT	GGTCCTCTGC	ACAACTTTTT	TAATAAGTAG	ATTATTTTAC	360
AAAGAAATTT	GAACAAATTT	AATTGAATCT	TTTGTTTAGC	TTGCCTCTAA	GAACTTTTCT	420
TAATAAAGCT	CCCAAACACT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1084:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

					AGGAAAACAG	60
TTGTTTCAGA	ACTCATGATA	TGAGTCATGA	CTACAACCCA	CCATATTCAG	TAAAACCTCA	120
CCTTGTCCTG	TTGTCTGACA	TTAAGTGTTC	TACGAGATCC	ATACCTGTGA	AATCAGCTCC	180
TCTGGAATGA	CAGATGCTGG	AATAACTGGC	TGGGGCTGAC	TGCCCAAAAG	CCCAGACCCT	240
CGATCCCGTC						268

(2) INFORMATION FOR SEQ ID NO:1085:

(A) LENGTH: 251 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:	
GAATTCGGCC TTCATGGCCT ACTTTAAGTG AACAACANCA ACAAAAAAGT TAAGGGTAAG	60
ATGAGGCAGC TTTTCAGTGG AAAATACTTG TCTTGGGGAC AGTATGTCAT GTCCCTATAC	120
CTGGTGCCAT TGATAAGGTT ATTCATTCAA CAATATTTAC TGATCACTGG CATATGCCAA	180
GCACTCTGCC AAGTACTAGG GATATAAACA TTAGAAAGAC AAGTTCCTCC CTTTTCAGTC	240
ACGATCTCGA G	251
(2) INFORMATION FOR SEQ ID NO:1086:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 258 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:	
GAATTCGGCC TTCATGGCCT AGAGCTTCAC GGAGGCAAGA GGGTAATGGA GTGCCTAAAA	60
AAAGCTCTAA AAATAGCAAA TCAGTGCATG GACCCCTCTC TACAAGTGCA GCTTTTTATA	120
GAAATTCTGA ACAGATATAT CTATTTTAT GAAAAGGAAA ATGATGCGGT AACAATTCAG	180
GTTTTAAACC AGCTTATCCA AAAGATTCGA GAAGACCTCC CGAATCTTGA ATCCAGTGAA	240
GAAACAGAGC AACTCGAG	258
(2) INFORMATION FOR SEQ ID NO:1087:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 391 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
4 1) (2000)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:	
GAATTCGGCC TTCATGGCCT AATAAAAAGA ATTATCAAAG AATTGCAGGG GAAACCCCAT	60
AGAGAAGACT CATTCTTAGA TGAGTATACA ATCCATGGGG GTCTTTAGGA TATTTAACTG	120
ATTTGGGAGA GGTCGGATAA AGAAAAAGGA GCATTAACCT TGACTATGCC TTTAGCTCCA	180
GCCGCCTCTT TAAGAGGAAA TTGTTGGGCA GGTGGGGGAA GGCTAGTCAT GGAACGAAAC	240
TGTAAGCCAG ATCGGGTGTG AGGAGGGGAG GTGATAAAAG GATTATAGGG TGGGAGAGCA	300
CAGGCTGAGG AAGAATTGGG ACCTGGCTCA GCCTGGCAAG GCACAGCCTG GGGAGGAGGG	360
GAGAGGTCCT GTAGAAAAGG AGGATCTCGA G	391
(2) INFORMATION FOR SEQ ID NO:1088:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 368 base pairs	
(B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAATTCGGCC	TTCATGGCCT	AGCCTTCNAA	GTTTGAATGG	CCCTTAGGTT	TTAAGTTATC	60
TATGCAAAGA	TGAANAAGGC	CTTCACATTC	TCAAAGGTGA	CAACTCATAC	CCAGCCATTT	120
GCTTATTTTT	GCCTGCAGAC	CTCCAATGGA	AGTCCGGGCA	CATGGCGGAG	AGCCTCACCA	180
ACATGCCACG	GCACTCCCTC	TACATCATCA	TTGGAGCCCT	CTGCGTGGCC	TTCATCCTTA	240
TGCTGATCAT	CCTGATCGTG	GGGATTTGCC	GCATCAGCCG	CATTGAATAC	CAGGGTTCTT	300
CCAGGCCAGC	CTATGAGGAG	TTCTACAACT	GCCGCAGCAT	CGACAGCGAG	TTCAGCAATG	360
CACTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:1089:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 409 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC	TTATGGCCTA	GTTCATTTAA	CTAATACTTG	TATTAAATCA	CTTCTAAATG	60
CTTATTATAC	CCTGTATTAT	AGTATTATAT	TCTGAGTCTT	AAAGGTGCTT	AATGTGAAGA	120
TTCTCTCTCT	ACATATTCAA	CTCTTACTAA	CTTTTGGCTT	TAGGTAGAAA	TCAGTTAGTG	180
TATTATATGA	TAAAATAGGA	AACTATTTCC	CTAGGGGTAT	${\tt AGGTATTCAG}$	TAGGGAGCTT	240
TGGAGTCTCA	ATGAGCTTCT	TAAAGAAGCA	TTTTTAATGG	TAGGTTTTAG	GGAGAGTTTT	300
TGTAGTAAGA	TAAAGTAGAT	GAGAAAGTGT	TGCCTCTAAA	CAATCAACAA	GCTGGGAATG	360
GGGTGCAGAA	TGAGGAGAAC	CCTAAGCAAT	AGGCAATAAG	AAGCTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:1090:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 359 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GAATTCGGCC	TTGGCCTAGT	GAGAGAGCGT	CAAAAAAACT	TCCATCTCAG	CCAACCACTG	60
ATACTAGTAC	TGACAAAGAA	AGAACTTCAG	AGGACATGGC	TGATAAAGAA	AAATCTACAG	120
CTGACTCTGG	AGGTGAAGGA	CTGGAAACAG	CCCCAAAGTC	TGAAGAGTTC	AGCGACCTCC	180
CCTGTCCAGT	CGAAGAAATT	AAAAATTACA	CAAAAGAGCA	TAATAATTTA	ATTCTGCTAA	240
ATAAGGATGT	TCAACAGGAA	AGCAGTGAGC	АААААААТАА	ATCAACAGAC	AAAGGTGAAA	300
AGAAGCCAGA	CAGCAATGAG	AAAGGAGAAA	GAAAGAAAGA	AAAGAAGGAA	AAGCTCGAG	359

- (2) INFORMATION FOR SEQ ID NO:1091:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 280 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

Ç	BAATTCGGCC	TTCATGGCCT	ACATGTTCAT	TCTAAGAAAC	TTAACTCCAT	TTTTAAGCTT	60
7	AAGATTCCC	CCGATCCCAA	ATAACCTAAC	ACACCAAAAG	CCTTGCCATT	TCACACATGC	120
7	GTTCCTTTG	CTTAGAACCT	TTTCAATGTC	TAGCTCACTC	TGTTTGGGAC	TTCTTTTTTC	180
7	TTTCTTTTT	TTTGAGACAG	GGTCTGGCTC	TGTCATCCAG	GCTGGAGTGC	AATGGGGCAA	240
7	TTCGGCTCA	CTGCAACCTC	CGCCCTTCCA	GGCTCAAGCG			280

- (2) INFORMATION FOR SEQ ID NO:1092:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 443 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GGAAAATTGA GAAAACCATG	AAAGAAAAAG	AAGAACTGTT	AAAGTTAATT	GCCGTTCTGG	60
AAAAAGAAAC AGCACAACTT	CGAGAACAAG	TTGGGAGAAT	GGAAAGAGAA	CTTAACCATG	120
AGAAAGAAAG ATGTGACCAA	CTGCAAGCAG	AACAAAAGGG	TCTTACTGAA	GTAACACAAA	180
GCTTAAAAAT GGAAAATGAA	GAGTTTAAGA	AGAGGTTCAG	TGATGCTACA	TCCAAAGCCC	240
ATCAGCTTGA GGAAGATATT	GTGTCAGTAA	CACATAAAGC	AATTGAAAAA	GAAACCGAAT	300
TAGACAGTTT AAAGGACAAA	CTCAAGAAGG	CACAACATGA	AAGAGAACAA	CTTGAATGTC	360
AGTTGAAGAC AGAGAAGGAT	GAAAAGGAAC	TTTATAAGGT	ACATTTGAAG	AATACAGAAA	420
TAGAAAATAC CAAGCTTCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:1093:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 256 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GAATTCGGCC	TTCATGGCCT	ACCTCCATTG	TATATTAACA	TTTATCATAA	TTATTATTTG	60
CTCATTCAAA	AAATATTGCT	CTGATATGGT	ATTGAATATT	CCTCACATAG	GAAAATATGA	120
ACAGTTTATT	TGCCACCCAG	ATGGTTTGGA	AGCCTATACC	CTCCAAGACA	TTGAGAAAAG	180
AAAAATCTTT	CTCTCAGGAG	AGAGAATGAG	TGCCAAGCAA	TGGGAGAAGC	CCCTTAAAAA	240
ACCATCAGAT	CTCGAG		•			256

- (2) INFORMATION FOR SEQ ID NO:1094:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 454 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

GAATTCGGCC	TTCATGGCCT	AAGCTGTTAG	TGATTCTGAC	ACCCTTGGAC	CTCCAGGAGT	60
AGCTCCTCCT	GCCACGAGAG	GACTCTGGCT	TTTCTAATAA	GGAAGGTTCT	GGCCAATCAG	120
TCCAAGAAAG	GCCCGGATTC	TCTTCCAAGG	TGTTGTCTCT	GCAGAAATGT	TCCTCAGGGT	180
GGAAGGTGCT	GCTGCAGCAA	GGGATGTCCC	CTGAGTTTTC	AGGTATGTAG	TCTGTGGCTG	240
CAGCAGGTGA	ACACTCCTCA	CACTCCCATT	TCTTACTGTT	AGATCTAAGA	GAGGAGCAGT	300
CCCTGTGGGT	TCCGTGGGAT	CCGCATGTAG	CACACAGAAT	GAGGCACCAC	CTCCCTTCAT	360
CCTCAAAGCT	GTCTCTGCCT	TGTTCATACA	GACAGATGGG	GGCATCACAG	TGCTGATAGC	420
GCTGATATAA	GTCTGAGAAA	GCCCCTGGCT	CGAG			454

- (2) INFORMATION FOR SEQ ID NO:1095:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 449 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

GAATTCGGCC TI	CATGGCCT AGTGATCTC	A TCTCTCCGTC	CATGGGCGAA	AAAACAGCCA	60
TCACCAGGCC AT	TTCACGCTT TGTGCTTT1	G TTAGCAGAGC	CCAGGCAGCC	CTGCAGCCCA	120
CATCTAGGGT AC	CAAACGGAA CGGCGGCGT	T TTCCTTGTAT	CATTTAGAGG	AAATTTTTGA	180
GCTGAACAGT AT	TTTTTTTC TCCCTCTCT	C TCTCTCTGAA	ATATTGCTGA	GATTTAAAGG	240
AGGACGAAGA CA	ACAGATTC ATAGCTGGG	T CTTGCTGTTT	TCCTGACGCT	GACCACAGCG	300
GATCTAGTTT CI	CTGCAGAA GACAGCAAG	A TGCCCCAGGG	AATGTTTGTG	AAAAAGGATG	360
ACTGGATGGG AA	AGCAAGCTG AAGAAAAAG	A AGGAAAGAAA	GAGAGAAATC	AGTAAATCAC	420
CACACAAGAG GT	GGAGAAGA GGACTCGAG				449

- (2) INFORMATION FOR SEQ ID NO:1096:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 166 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

GACTGGCCGC	AAGGGACGGG	TTGTGAGCAA	TGATGATGGA	AGCATATCTT	ATGAGTCAAG	60
ATCTGAACTT	GATGTGCCTG	TGGAAATACT	AAACATCACA	GAAAAACAAC	GATTTATGGA	120
TGGAGATAAG	AATATTGCTA	TCATCTCAGA	AGCTGCCATG	CTCGAG		166

- (2) INFORMATION FOR SEQ ID NO:1097:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 501 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

GAATTCGGCC	TTCATGGCCT	ACATTATTTA	CACCTGTCCC	AGACTTTGAT	TCAGGAACTA	60
		TGATGGAAAA				120
GATCAAGATC	CCAGAAAGCA	GTGGCCAAGG	CACTCACTGT	AGACTTTAGT	GCCTGCAGCA	180
		CTACGCCCAG				240
ATTCTGTGTA	AGATTTGATG	CGCTGTCCCT	GGCTGCAGTG	CCTGCAGACA	TCTCTCTCTA	300
GCCCTTCTAA	CAATTTCACA	GCAACTCAAC	ATCTTTAAAA	ATTTATTAGC	CAACCAAAAT	360
CAGCTTCTGT	GGCATGCAAG	TAAAAACCCA	GGCTGATATG	TCTGAATACA	GAAGATTTAT	420
ATTAGTTCCT	TAGAGTCAAT	AATCCATACA	GACTCTATTC	TAGCTTCTTT	GTGAAGTGGG	480
TAAGAATTCC	TCTGCCTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:1098:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 282 base pairs
    - (3) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

GAATTCGGCC TTCATGGCCT ACTTCAAA	AA CATATATTAA TATTTTTGTA CCACGTAAGT	60
TCATCAGAAG CCTGACTTTA ATCTCTGAT	TT TATTATATIT GAACACTGTG AAGAAGCAGT	120
TTAACACTGA ACGAAAGTGT CGTAATGC	AG CTTTCAAAGT GGCCATTAAA GACAGATCTC	180
TGCTTTTCTA TTAGTACATT TTCTAAGAT	TG ACTATCATTG CCATTGTAGT CAGCTTTGTG	240
TACCTTTATA GAGATTCCAG TATAAACC	CA GAAACGCTCG AG	282

- (2) INFORMATION FOR SEQ ID NO:1099:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

GAATTCGGCC TTCATGG	CCT AGGAAACTTT	TCAAAGAAGT	AGTCCACGAG	AACTACCTTG	60
AAAGAGCAAA ACCAGCC	AGG TGCAGTGGCT	CACGCCCATA	ATCCCAGCAC	TCTGGGAGGC	120
CCAGGTGGGT GGATCTC	GTG AGGTCAGGAG	TTCAAGACCA	GCTTGGCCAA	CATGGTGAAA	180
CCCCATCTCT GCTGAAA	ATA CAAAAGTTAG	CTGAAAATAC	AAAAGTGGCA	CATGCCTGTA	240
ATGCCAGCTA CCGGGAA	AGG CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:1100:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 310 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

CTCGAGCGTA	TCCCAGAACT	TAAAGTATAA	TAATAATAAT	AATAATAATA	ATAATAATAA	60
TAATAAAACC	TTCCAACAAG	CTTCCTTTCC	ACCACAGGAA	ATCCTGTTGG	GAGTTCCCCC	120
TGAACCAAAA	AAAAAAAAG	ATAGAGTATA	AAACATACAC	TTTTCAGGAA	TGCTTATTGG	180
GTAATGTAAG	ATAACACCTC	AAAATGAAAC	TCAGAATTTT	ATTTTATTTT	ATTTTTTGAG	240
ATGGAGTCTC	ACCTAGGCTG	GAGTTCAGTG	TGGTAATCTT	GGCTCACTGT	AGGCCATGAA	300
GGCCGAATTC						310

- (2) INFORMATION FOR SEQ ID NO:1101:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 367 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTGT	ACCTCATTCT	GCCATCTCTG	ATATTATGTC	60
ATCTGATCAA	GAAACTTACT	CTTGTAAACC	TCATGGACGG	ACTCCACTTA	CCTCAGCTGA	120
TGAGCATGTA	CATTCCAAAC	TGGAAGGAAG	TAAAGTAACG	AAATCTAAGA	CTTCTCCGGT	180
GGTATCTGGT						240
CCTCTTGCGC	AGAGCACGAC	TTGGTGAAGC	TTCAGACAGT	GAACTTGCTG	ATGCTGACAA	300
AGCATCTGTT	GCTTCTGAAG	TATCCACAAC	AAGTTCTACA	TCAAAACCTC	CCACAGGAAG	360
GCTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:1102:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 368 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

${\tt GAATTCGGCC}$	TTCATGGCCT	AAGAAAGCAA	GAAAGCACGA	AAGCAATCAA	GCAAGAAAGC	60
AAGCAGGAAA	GAAACAAAAG	AAAGAAAGAA	NGCGAGAAAA	CAAGAAAGCA	CGAAAGCAAG	120
CAAGCAAGAA	AGCAAGCAAG	AAAGAAACAA	AAGAAAGAAA	GAAAGAAAGN	AAACAGGAAA	180
GCAAGAAAGC	ACGAAAGCAA	GCNAGCAAGC	AAGAAAGCAA	GCAAGAAAGA	AACAAAAGAA	240
AGAAAGAAAG	AAAGAAAGAA	AAAGAAAACA	GGAAAGCAAG	AAAGCACGAA	AGCAAGCAAG	300
CAAGCAAGAA	AGCAAGCATG	AAAGAAACGA	AAGAAAGAAA	GAAAGCAAGA	AAACGGGAAA	360
GACTCGAG .						368

- (2) INFORMATION FOR SEQ ID NO:1103:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 328 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC TTCTGGCCTA GAAACCCGTG ACACACACA ACACACCTGC ATAGATTTTT	60
CCCAAGCACA CGATATGCAC GTGGATACAC AGACTTACAA GCACAGGGCC ACGTGCAGAC	120
AGACACAGAC CCTGTCTGCA CCACAAACAT ACCACACACA GCCACACACA CAGAAGCCAA	180
ACATCCTCGC ATAGGTGGAT ACAAGCACAG ACTCACATAC ACATATGCGA TACACATATG	240
GATACATACA CAGAGTACCC CCACAAACAC ACAGACACAC ACGGGCAGAG ACAGACAG	300
ACAGGCACAG ACCCCCCC ACCTCGAG	328
(2) INFORMATION FOR SEQ ID NO:1104:	
(i) SEQUENCE CHARACTERISTICS:	
. (A) LENGTH: 246 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) Totobodi. Hiteal	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:	
TANANA CHE CA CHIMA A PICC. COA PICA CHINA A PROPERTICAL AND CANADA A PICC.	
AAAAAAACT GAGTTAATGG CCATGACTAG ATGGGAGGTC AGATTCGCCG TTATATCCTC CTGTTTTGC AGTTTAGACA CAACTGACCA GCATTGTTAA AATGGAGATC ATACGGCTGG	60
PAGAACAGAC TCTTTGTGGC CCAAAATTAG CAAATTATAA ATAGAATCTA AAGCCATCCC	120 180
AGGCAAGGGT TAAGTTATGC ACCCCTACAC TTAAAGAATA AACTATGTTG GCCGGGCCAA	240
CTCGAG	246
(2) INFORMATION FOR SEQ ID NO:1105:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 298 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:	
GAATTCGGCC TTCATGGCCT ACGATCAGAA AGAAAACACA GATCTCGAAG TCGGGATCGA	60
NGAAGATCAA AAAGCCGGGA TCGAAAGTCA TATAAGCACA GGAGCAAAAG TCGGGACAGA BAACAAGATA GAAAATCCAA GGAGAAAGAA AAGAGGGGAT CTGATGATAA AAAAAGTAGA	120 180
SAAGAAGAC GGAGCAGAAG TAGAGATCGA CGAAGAAGCA GAAGCCATGA TCGATCAGAA	240
AGAAAACACA GATCTCGAAG TCGGGATCGA AGAAGATCAA AAAGCCGGGA AGCTCGAG	298
4.	
(2) INFORMATION FOR SEQ ID NO:1106:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 211 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) Toronogi. Timear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:	
SAATTCGGCC AAAGAGGCCT AGGGATGGAT GGTTCAGCTG CTAGAATTTC GATGCAGGAC	60
TTCTTCAAAA TTGAGTGGAT GATGCCTTGC AGAGCCTGAA AGCCGTCATT CACGGGAAAC	120
ACATGATCCT TACTGTCCGC AATCCGGGCC AGCTGTGTCT CATTGAAATC TTTCACACCA	180

(2) INFORMATION FOR SEQ ID NO:1107:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 269 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:	
GAATTCGGCC AAAGAGGCCT ACCTGCTTGA ATTGGGGCCC CTTGTGAAGC TGCTGCCGCA TCTCTTCCAT TCGCTGCTTC CGGTACTGCT GCAGAAACTC TTCATCATCT TGGTCCTCAT TCATTATGGC AAACTCCTTC AGAGTCATCT TCCCACTGAT CTTCTCCTGG AGGTCTTTCT GTTTCTGTTG CTCCTCCTCT TCATCCAGAT GGGACCTGCA AGTCATTGAC AGCTTCTTGA TCAGCCTTTC CATCTCCGG CAACTCGAG	60 120 180 240 269
(2) INFORMATION FOR SEQ ID NO:1108:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 133 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:	
GAATTCGGCC AAAGAGGCCT ATGAAAATTG ACTGCAATTA GTAAAGTTGG TATAACGTAC GTTCCCAGTT GTGCTATTTA GAATTATGAT AGTATTATGC TCCTACTTTT CTTTGATATT GAGTAGTCTC GAG  (2) INFORMATION FOR SEQ ID NO:1109:	60 120 133
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 123 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:	
GAATTCGGCC AAAGAGGCCT AGCTTTTCT AATCATAAAT TATATGACCT TTACAGAAAA TTTAGAAAAT ACAGAAAAAC TGAAAAGTTA CACATGGTAC AACTCACAAC CACAATCCTC GAG	60 120 123
(2) INFORMATION FOR SEQ ID NO:1110:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
460	

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

GAATTCGGCC	AAAGAGGCCT	AGTGTTCCAG	ATCCTACGGC	TTATGAGGAT	TTTCCGAATT	60
CTAAAGCTTG	CCCGGCACTC	GGTAGGACTT	CGGTCTCTAG	GTGCCACACT	GAGACACAGC	120
TACCATGAAG	TTGGGCTTCT	GCTTCTCTTC	CTCTCTGTGG	GCATTTCCAT	TTTCTCTGTG	180
CTTATCTACT	CCGTGGAGAA	AGATGACCAC	ACATCCAGCC	TCACCAGCAT	CCCCCTCGAG	240

- (2) INFORMATION FOR SEQ ID NO:1111:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 264 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

GAATTCGGCC	AAAGAGGCCT	AGGTGGGGAG	GGGAGGGGAC	AGGAGAAATG	AAATACCTTC	60
ACCGAGAACT	CAGCAGCTGC	CACCGCAGCT	GCCTCCTCAG	GATCCGGTCG	TCGGGGATAG	120
GGAAGGGAGG	GGAAAGGGGA	ACGGAAAACA	AAAAAAGGG	GGAGGGAAGG	GGGAGGAAGG	180
AGTCGGGGAC	GGCCTCAAAC	TCAGCTCAGA	GGAGTCGCTG	CTGCAGCCGC	CACTCGGTAC	240
CCGCTGCTAG	GCCTCTTTGC	CGAG				264

- (2) INFORMATION FOR SEQ ID NO:1112:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 519 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

GAATTCGGCC	AAAGAGGCCT	AAATATTAGA	AAATGTATAT	TATAGAACAT	GATATATATT	60
TACATTCATC	TCTGTATTCT	CTCAGCTGTT	GTTAGAAGGA	CAGAATGTTA	AACTTTATCT	120
TAATTAGTAT	ACTAGAAAGG	GCAGTATAAT	ACTGTTTTAA	AGTGAAGGCA	TGACTGAAAC	180
TAAAATATTT	CATAAGGCTT	AGCTAGAGGC	AGAGTAACGT	GTTTTTGTTC	ATTGGGCTTC	240
CTTGTACTTA	GTTTTTTCAT	TTAATAATTC	AAACCAACAC	TTTTAAAAAAA	ATAATTCAGA	300
TGAGACTGAG	CCATATCTGC	AGTAAGAGAA	ATATTTCTTA	ATGTTTTGGT	TACTTATGAT	360
AGAGTACTTT	TCTTGATACT	GTTAACTTTG	TGCTTTTTAA	AAAAAGTGAT	TCTCTAACAG	420
ACCTCTTAAA	TTGTGACATG	AAGGTATGTA	ATTAGATTTC	AGAAATTGGT	TTATTAGTGA	480
GGAATTTTTA	TCAATAAATG	TCATGGGGCG	GCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:1113:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 562 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

GGCCCACCTA	GTTGGTATCC	CAAATTCACA	CATTCAAAAG	CAAAGCCATT	TCTCACCTTC	60
				CATTCTTTAT		120
				TACATGGTGT		180
				CATTCCTCTT		240
				CAACTTACAG		300
				GCCAGAGCAT		360
				GTTGACCTAG		420
				${\tt AAATGTCTTT}$		480
			GTGGCTTGGG	CCTGTAATCC	CAGCACTTTG	540
GTAGGCCTCT	TTGGCCGAAT	TC				562

- (2) INFORMATION FOR SEQ ID NO:1114:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 435 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

		ATTATTGCTA				60
CAAGCAGCTG	GTCAGTCTTT	GCTCAGTGTC	CAGCTTCCAA	AGCCTAGACA	ACCTTTCTGT	120
		TGCTCCAGAT				180
TGAAGTAGGT	GGCTTGAGCT	AGAGATAAAA	CAGAATCTTC	TGGGTAGTCC	CCTGTTGATT	240
ATCTTCAGCC	CAGGCTTTTG	CTAGATGGAA	TGGAAAAGCA	ACTTCATTTG	ACACAAAGCT	300
TCTAAAGCAG	GTAAATTGTC	GGGGGAGAGA	GTTAGCATGT	ATGAATGTAA	GGATGAGGGA	360
AGCGAAGCAA	GAGGAACCTC	TCGCCATGAT	CAGACATACA	GCTGCCTACC	TAATGAGGAC	420
TTCAAGCCCC	CTCAG					435

- (2) INFORMATION FOR SEQ ID NO:1115:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 477 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

GAATTCGGCC	AAAGAGGCCT	AGTGCCTAGA	TTGATCGGTA	TAAGGCTCAC	TCTCCCGCCC	60
CCCAAAGTGG	TTGATCGTTG	GAACGAGAAA	AGGGCCATGT	TCGGAGTGTA	TGACAACATC	120
GGGATCCTGG.	GAAACTTTGA	AAAGCACCCC	AAAGAACTGA	TCAGGGGGCC	CATATGGCTT	180
CGAGGTTGGA	AAGGGAATGA	ATTGCAACGT	TGTATCCGAA	AGAGGAAAAT	GGTTGGAAGT	240
AGAATGTTCG	CTGATGACCT	GCACAACCTT	AATAAACGCA	TCCGCTATCT	CTACAAACAC	300
TTTAACCGAC	ATGGGAAGTT	TCGATAGAAG	AGAAAGCTGA	GAACTTCGGA	AAAGGCTCAT	360
CTGTCACCCT	GGAGAAGGGA	AACTGTACTT	TTCCCTGTGA	GGAAACGGCT	TTGTATTTTC	420
TCTGTAATAA	AATGGGGCTT	CTTTGGAATT	TGATAAGCCT	AGGCCTCTTT	GGCCGAA	477

- (2) INFORMATION FOR SEQ ID NO:1116:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 620 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC	AAAGAGGCCT	AAGATGAAGC	CCAACATCAT	CTTTGTACTT	TCCCTGCTCC	60
TCATCTTGGA	GAAGCAAGCA	GCTGTGATGG	GACAAAAAGG	TGGATCAAAA	GGCCGATTAC	120
			AAAAGGGCCA			180
GCAAGCAACA	AACTGAATCC	AAAGGCAGTT	TTTCTATTCA	ATACACATAT	CATGTAGATG	240
CCAATGATCA	TGACCAGTCC	CGAAAAAGTC	AGCAATATGA	TTTGAATGCC	CTACATAAGA	300
CGACAAAATC	ACAACGACAT	CTAGGTGGAA	GTCAACAACT	GCTCCATAAT	AAACAAGAAG	360
GCAGAGACCA	TGATAAATCA	AAAGGTCATT	TTCACAGGGT	AGTTATACAC	CATAAAGGAG	420
GCAAAGCTCA	TCGTGGGACA	CAAAATCCTT	CTCAAGATCA	GGGGAATAGC	CCATCTGGAA	480
			AAGAAAGGCT			540
AAGAACAAAC	TTCCGTCTCT	GGTGCACAAA	AAGGTAGAAA	ACAAGGCGGA	TCCCAAAGCA	600
GTTATGTTCT						620

- (2) INFORMATION FOR SEQ ID NO:1117:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 158 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAATTCGGCC AAAC	BAGGCCT AGACCTGCC	CATTTGTTAA	CATTTTTCCA	TTTCTAAACC	60
ATCCTTAAAG AAAA	ATCATAT ATGGGGTCAC	ACCATCCTCA	CGGTAGTCCA	ATAGAGCAAC	120
CATGCCATCT GGAT	TTCATGT TTTCACCAA	CCCTCGAG			158

- (2) INFORMATION FOR SEQ ID NO:1118:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 410 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

GCACTGCTTC	TGTTAAAGTC	ACTGACCTTA	ACAGTTTAGA	ACTAGATAAA	GGAAATTTTG	60
TGGTTGACCA	AATGTGTGAA	ATAGGTAAGC	CAGAACCATT	GAATGAGGAG	GAAGCAAGGG	120
GTGTGGTTGA	GAATTATAAT	GATGAAGAAG	TGTCAATTAG	AGTTGGTGGA	AATACACAGC	180
		AAAAATGTAG				240
		TACAACAAAG				300
		TCTGAGACTA			GAATCTGATA	360
GAAACAAGGA	ATCCAGTGAC	CAAACAGGCA	TTAATATTAG	TGGACTCGAG		410

- (2) INFORMATION FOR SEQ ID NO:1119:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 452 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC TTCATGGCCT	AGTTGCCCTA	ATTTGCAGCC	GAACTTGGAA	GCCACTGTAT	60
CCAATGGACC TTTTCTGCAG					120
CCAGTCCTGC ACTTCATGGG	TTATCATGTA	CAGCAGCAAC	TCCGAAGATA	GCAAAATTGA	180
ATAGAAAACG ATCCAGATCA	GAGAGTGACA	GTGAGAAAGT	TCAGCCACTT	CCAATTTCTA	240
CCATTATCCG AGGCCCAACA	CTGGGGGCAT	CTGCTCCTGT	GACAGTGAAA	CGGGAGAGCA	300
AAATTTCTCT TCAACCTATA					360
AAACTGTACT TTTATCTACT			TGAACATGGA	TCCAAGAAAT	420
CTCACTCTAA AACCAAGCCA	GGTTATCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:1120:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 592 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

GAATTCGGCC TTCATGGCCT	ACATGAATCT	ACTTCTGATC	CTTACCTTTG	TTGCAGCTGC	60
TGTTGCTGCC CCCTTTGATG	ATGATGACAA	GATCGTTGGG	GGCTACATCT	GTGAGGAGAA	120
TTCTGTCCCC TACCAGGTGT	CCTTGAATTC	TGGCTACCAC	TTCTGCGGTG	GCTCCCTCAT	180
CAGCGAACAG TGGGTGGTGT	CAGCAGGTCA	CTGCTACAAG	TCCCGCATCC	AGGTGAGACT	240
GGGAGAGCAC AACATCGAAG					300
CATCCGCCAC CCCAAATACA					360
CTCCTCACCT GCCGTCATCA	ATTCCCGCGT	GTCCGCCATC	TCTCTGCCCA	CTGCCCCTCC	420
AGCTGCTGGC ACCGAGTCCC					480
CTACCCAGAC GAGCTGCAGT	GCCTGGATGC	TCCTGTGCTG	AGCCAGGCTG	AGTGTGAAGC	540
CTCCTACCCT GGAAAGATTA	CCAACAACAT	GTTCTGTGTG	GGCTTCCTCG	AG	592

- (2) INFORMATION FOR SEQ ID NO:1121:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 304 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

		AATAATTTTT				60
GTATCTTCTC	TTCCCTCTTC	CCCTTTAGTT	TGGATAGCCT	AACTCTGAGA	AGTTAACCCT	120
		ACTGAATTTC				180
		AGCTACCCTC				240
		TAATAGGTCA				300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:1122:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 388 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

	TTCATGGCCT					60
CAGTTTTATG	ATTTGGAATA	CCATGATGGG	AACATCTATA	CTAAGCATTC	CTTGGGGCAT	120
AAAACAGGCT	GGATTTACTA	CTGGAATGTG	TGTCATCATA	CTGATGGGCC	TTTTAACACT	180
	TACAGAGTAG					240
	CCAGATGTCT					300
	TTGGTGTCTC		AATGATAGTT	TATTGGGTGC	TTATGTCAAA	360
TTTTCTTTTT	AATACTGGTA	ACCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:1123:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 478 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

AGCAATTCCA TAAACACATC	CTGGTGTCAT	CACAGCCAAG	GTTTTTAGGT	TGCTATACCA	60
ATGGCTTATT AAATGAAAAT	GGCACTAAAA	GTTTCTTGAG	ATTCTTTATA	CTCTCTGCCT	120
TCAGCAATCA ATTCCATTCA	TACATCAGCA	CTCTGCTGGT	TCTGTTTGAA	ATATGTTCTG	180
TATTTAAAAC TCAAATCTTG	TTGGATCTCT	GCAGGGCTTG	TGACCAATGA	AGTCATATTT	240
GTTGATGGTT GACAAAGCTT	GCTTCACTCC	ATCAGAGAAT	GACTATCAAT	TTTTTTTAA	300
CTGTCCTATC ACGTCCTCTC	CTGTCACCCA	TTTTGAAGAG	TGGCAGAACT	TGAAGTTCAA	360
CTTCCTCTGT AAATATCCAA	GTATAAAGCC	CAGGAACTTC	TAGAATAACC	CAGATGCGCT	420
TTAATTTTTT TTAATATGTT	TTGATCACAG	AACTCCTTAG	GCCTCTTTGG	CCGAATTC	478

- (2) INFORMATION FOR SEQ ID NO:1124:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 450 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

${\tt GAATTCGGCC}$	AAAGAGGCCT	AGGAATTCAG	TGCAAACACT	ACTTTGAACT	GTGGTTCCTA	60
ATTTCCACGA	AAGTTTTTCT	CTGTTCTTCT	ATTATGGCAC	TTTTCAGGGT	CTCCCTTGTA	120
				AGGGACCGGT		180
TGTTCCAACC	ATAGTTCCTT	AAACATTGTG	TTCCATTAAT	ATTGGGTGAA	TTGAAATGAA	240
TTTATAGGAA	GCTCCTTAAC	CTGGGGTCCT	CAGACCTCTA	TGGGGTCCAT	GGACAGAATT	300
TGAAGTGGGA	AGGATATATG	AACTTGGATG	GAGGAAAATT	ACTTATTTGT	TTTTTACCAA	360
CCTCTCCTTT	GTAATTTAGC	CATTTGTTCA	ATTATAATGT	AGGCAAATAA	AAATAAAAAT	420
AAAATAAAA	TAAAGGCAGC	TTAGGCCTCT				450

(2) INFORMATION FOR SEQ ID NO:1125:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 550 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

		ATCCTTAGTG				60
GTCTATATCA	ACCAACACCT	TTTCTGGGGT	CTGATGAGCG	TCGGCATCGG	GCGCCTTAAC	120
CCGGCGTTCG	GTTCATCCCG	CAGCGCCAGT	TCTGCTTACC	AAAAGTGGCC	CACTAGGCAC	180
		CACGCCAGCG				240
		GGCCCCAAGA				300
		GGTCTGCGAG				360
		TTCGATTAGT				420
GATTTGCACG	TCAGGACCGC	TACGGACCTC	CACCAGAGTT	TCCTCTGGCT	TCGCCCTGCC	480
CAGGCATAGT	TCACCATCTT	TCGGGTCCTA	ACACGTGCGC	TCGTGCTCCA	CCTCCCCGGC	540
GCGGCGGGCG						550

- (2) INFORMATION FOR SEQ ID NO:1126:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 381 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

GAATTCGGCC	AAAGAGGCCT	AGTTTGCAGG	AAGAAGGCAT	GGGATAGTCT	GAGAACAAAC	60
AGGCACTAAA	TGGAGCAACA	TCATCTTGAG	GTGTCAAGCA	GGAGCTGGGA	GACCAGCAGA	120
GACTCCCAAG	GCCTTGCTGC	TGTTGGTCTG	CAGGCAGCTC	TGTAGGGCAG	GCTGTTGTCA	180
TTTTGCAAGT	GAGCAAGCAG	AAGCCCAGGC	AGGTGAGTCA	TTCACTCCAC	AGTTCATAAC	240
TTGGATTGTG	GGTTAGTTAC	ACCTGACTCC	AAAACTTGAC	TTTTTACTAC	TCAGCTATAC	300
TGGCCTCTCA	AGAAAGGCTA	GGCCCTAATT	TCTAGACTCT	CTTTTACCAA	TAATACCTGT	360
TGCCACGAAG	TAGGCCTCTT	T				381

- (2) INFORMATION FOR SEQ ID NO:1127:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 361 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

GAATTCGGCC	AAAGAGGCCT	ACTCTCAAGG	TGGGCATATG	CAAAACATAA	TCTCTAAATT	60
CTTCAATACT	AAGAAATACC	TTTGTTTTAC	CCCTAAAATC	AAATGCCATT	TTGGCTGGAT	120
ATAGGATTCT	AGGATTAAAG	CCTTTTTCCA	GCAGAACTTT	GAAGACATTG	CTCCATTTAC	180
TTCTAGCATC	CAGTGTGTCC	AGTGATAAGT	CTGCTGTCAA	CCTGATTCTT	GTTCCTTGGT	240
AGGTAATTTC	TCTTCTCTCT	CTAGAAGCCC	TTATTATTTT	CTCTTTATCA	CTAGAATTCC	300
					CTAGGTACTC	360

300

325

G		361
(2	2) INFORMATION FOR SEQ ID NO:1128:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 359 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:	
GC TG AG GG AG	CAGCCAATG GCGGCGCAG AGGGAAACN GAGCCTTGCT NACGGGCCCA ACGCTGGGGA CAGCCAGC CAGGTGGCGG GCGCAGACTT CGAGAGCGAG GACGAGGGCG AGGAATTTGA CACTGGGAG GACGACTACG ACTATCCCGA AGAGGAGCAG CTCAGTGGTG CCGGCTACAG CTATCAGCC GCTCTTGAAG AAGCCGACAA GATGTTTCTG AGAACAAGAG AACCAGCCCT CATGGCGGG TTTCAGATGC ATTATGAGAA GACCCCGTTT GATCAGTTAG CTTTTATCGA CAGCTTTTT TCACTGATGG TTGTCAATCG TCTGACCGAA GAACCCGGCT GCTCTCGAG  INFORMATION FOR SEQ ID NO:1129:	60 120 180 240 300 359
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 274 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:	
AG; - GG; GA:	TGGCACCC TCCTCAGAAA GCAGCGTCCC CTCTCACAGT ATGTCCTCCC GACGGGACAC ACTCGGAT ACCCAGGATG CCAATGACTC AAGCTGTAAG TCATCTGAGA GGAGCCTCCC ACTGTACC CCTCACCCCA ACTCCATCAG CATCGATGCC GGTCCCCGGC AGGCCCCCAA TTGCCCAG ATCAAGCGCA ACCTCTCCTA TGGAGACAAC AGCGACCCTG CCCTAGAGGC CCTCGCTG CCCCCACCCG ACCCCTGGCT CGAG	60 120 180 240 274
(2)	) INFORMATION FOR SEQ ID NO:1130:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:	
GGC ACI	CTTTCCAC CTTCCCTGCG GAGATGAGGG TGGTGGCCTC CCTTTTTGTC ACCCTTCCAA GTCATGCT CGTCTGCTGG CTTTTCTCCA AGATGCTGCC AAAAATGATC TTAA1AAGAC AAGCCTGG TTGTGATATT TTCCTGATTC AAGTGTCTCT GTGGTTCTTG GTTGCCTTCA AGAGAGGTT CAAGCCTCTT ATGGTGGTTT GTGAGGCCAG GCCTGAACTA GCCCCATCGT	60 120 180 240

CTGTTCATTC ACCACCCCAG TATCCCTGCT GCAGGTTTTT AAAGATCTCA TGTCCCTGAT

TGCCTGTCAC TGTGTCTGAC TCGAG

(2) INFORMATION FOR SEQ ID NO:1131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 639 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

CTCGAGGATC C	CCGGGGACG	GGACGGGCCG	GGGCTTGGAG	GGGGGTCGGC	TGCCACAGGC	60
TCACATCACG G	CCTCCATAT	GCAGGATCCT	CAGGGCCTCG	GAGATCTGCG	CGCTGGGGTC	120
CATCTGGCCG T.	ACATGCCCA	CCAGGAAGGC	CCGGTGGAGC	AGCACAGCCG	CGTGCTCTTG	. 180
GCACAGGAGA G	CGTACTCAG	GCAGGTTCCG	GAGGGCCGTC	TGCACCACCT	CAAAGTCCTG	240
GCTGCCCAGG C	AGTACATGA	ACGTNGGGCA	GGAAAGCGGC	TGCAATGCNG	GGGGCTGTCT	300
GCATGGAGCG C	AGGGCCAGG	CTGAAGGCGA	GGTTGCGGCA	ACACTCCTCG	GCCGAGCTCA	360
TCAGCCGCTG C	AGGTTGGTC	GAGAAGAAGC	TCAGGATCTC	GGGTCTCCGC	CGGGACATCT	420
CGTCTATGTC A	CTCAGAACC	TCCAGCAGAT	CCTCCACCGT	TTGGCCCCGG	GAAAGCCGTT	480
TCATGTAGGG G	GCCATCTCG	GCCGCGGTCA	GAGGGGTGAA	CAGGGAGACG	CTGACCAGGG	540
GCAAGGAGCC G				CAGGCCTCGG	TCGGTCCTGT	600
CGTCCCTGCT G	GGCAGGCTG	AGCCCTGCAA	GGAGGGATC			639

- (2) INFORMATION FOR SEQ ID NO:1132:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 448 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GGTCTGTGGT	CTTGGAGGCT	TAAATTGTAA	AATACATCCC	TTATGGAATC	CTAAATTCCT	60
CTAGGTGTTT	TTGGAAGGCG	CATTTGAGCC	TTGTGAGCTA	AAATGGAATG	GATTTAATAT	120
TTCCTATCTG	GCATTTCCAT	CTTGCCCCTG	GTACACAAGT	CACTGGCCTG	GAACTCAGCC	180
TTGATTCACT	GTCCGTCTTC	ACGGATTAGC	TGTGCTGTTA	TGTTGTCTGT	GCTGCAGATT	240
			TTTCCTGCTT			300
			TGAACTGCAG			360
			GAAACCAACC			420
AAAGCGGAGA						448

- (2) INFORMATION FOR SEQ ID NO:1133:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 372 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC	TTCATGGCCT	AGGGCTATGG	CCGGAGCTTG	AGATACGCCG	CTCTGAATCT	60
TGCCGCCCTG	CACTGCCGCT	TCGGTCACTA	TCAACAGGCA	GAGCTCGCCC	TGCAGGAGGC	120
AATTAGGATT	GCCCAGGAGT	CCAACGATCA	CGTGTGTCTC	CAGCACTGTT	TGAGCTGGCT	180
TTATGTGCTG	GGGCAGAAGA	GATCCGATAG	CTATGTTCTG	CTGGAGCATT	СТСТСААСАА	240

CAACATCTCG AG

GGCAGTACAT TTTGGGTTAC CGAGAGCTTT TGCTGGGAAG ACGGCAAACA AGCTGATGGA

TGCCCTAAAG GACTCCGACC TCCTGCACTG GAAACACAGC CTGTCAGAGC TCATCGATAT

300

360

(2) INFORMATION FOR SEQ ID NO:1134:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 452 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:	
GAATTCGGCC TTCATGGCCT AGCTGGTTCT TTTATTTTGG TGTCTCAGGG ATGTAAAAGA TTTTTAGTGC ATAATATTAA ATGGCAAAAT CAAATTTCCC AACAATATAC AAAAATAAAAT CCCATTTACA AAGGAAAAG GCTTTATCTA TTTGTATATC TATATATAT TATATAAATT CATAGAAAAC TATCTGGAAG GTATGTAGC AAAGCATTAA CAATGGTTAT CTCTGGGTAT AAGAAGGAAC TAGAACTGAA GAAGATGGTG GTGATAAGGG AAGGTATACC TTTCTTTTT TTTTATTCTG CTGTGCTTGA GTTTTAAAGA ATGAGAATAT TCATGTATTC CTTGTATAAT TATAACACAG AAAACCTCCT TATTAGGAAT AGGAGGCTGA TTTCTTTTTT AATGACTGAT CTTAGGTCCT TTTTGGGTAT TCCCCTCG AG	60 120 180 240 300 360 420 452
(2) INFORMATION FOR SEQ ID NO:1135:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 283 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:	
GAATTCGGCC TTCATGGCCT AGGAGGAGG AAGGATTGGG AGCAGTGGGG TGTGAGTGGG AGAGGAGGTA GGGAACCAGA TGGGGAGAAT CGAGCCAAGT TCTGGGTTGG AGGAAACTTT CTTATTTAAC TGAGCTGGTG GGTTACATAT CTAATGTTGC AGGTGATGAA TACAGGCTGG GGTAGCCGTC TAAATCCACC GAAAGAAGTA AATGAAAGTG GTTTCTTGTA GGTCGAAAGG TCAAGGTAAA TGGCTGGTTT TTAGGAAACA ACTGATCCTC GAG	60 120 180 240 283
(2) INFORMATION FOR SEQ ID NO:1136:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 264 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:	
GAATTCGGCC TTCATGGCCT ACTGGAGACT TGTAATTAGT CTAAGCATAA TATGATTAGG TGGATGAAAT ATTTTGGAGT TTGGTTTTGT TTTAAATGTA AATACTCATG AAAAGTAAAA CATACTGCAC TGTGTCCCTG GGAATATTTT TGTTATCTTT AAAATACTCA GTATTATAGG CATTTATTAA CACAGCCTTA CATTTGCCCG GTTTGACCTG GAGGCCGAAA TGAATTGTGA	60 120 180 240

(2) INFORMATION FOR SEQ ID NO:1137:

(i) SEQUENCE CHARACTERISTICS:

CTTATGTCCC AGCTGGGTCT CGAG

(A) LENGTH: 653 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:	
GAATTCGGCC TTCATGGCCT ACCACGTTTC CTCACCTGTA AAATGGACAC TGCAGCTATG	6
TCTGCTGTTC CACATTGTTG ATAGAACTGG ATGCTGTGGT GACATTTGGG ACACTATCAT	12
GGTGCCTGGG GTGGGTGGGT GCCCAGGCCT GTGGGCCTTCT GTCTTTCATC AAAGAACTTC	18
AGATCCCAGA AAATTAAGAT TCTCAAAACA TAACTGTCGG AAAGGGCTTT TGAATCCACC	24
TTGGTGGCCT CTTCCTGCCT CCAGGGCTCA TGAGATAGGC TGACTTCATA TGAAAGTTTT	30
GAGGATGAGG AAGTCTCTCT CCTCTTCAGA TACTGACCCT CTCTCTCCTT ATTTCCTTGG TGCCCAGAAT AGGGCTTTGG TTATCTTGAA TGAATGAATA TAAACTCACA GGTGTGATCT	36
GAGCCACCTA AAGCCCTCTT TGGGTTCTGC TCAGCTTGAG GGCATCACCT AAAGGCCACT	42
GGCTGCATTT TCCAGGAGGT GTTTTCTAAG CTGTATCTAT ATAGGAATGG GGAGGAAAGC	48 54
TAAGTCATTG TAGACTGAGA GAAAGGGAAT AAGAGTCTGT TCCAGACCAG CTAGGGCTGA	60
CAAGCTTAGG CAGCTGGGGG CAGAGGGCAC TGAGAATGAG GCCCTAGCTC GAG	65
(2) INFORMATION FOR SEQ ID NO:1138:	
•	
(i) SEQUENCE CHARACTERISTICS:	
<ul><li>(A) LENGTH: 315 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:	
GAATTCGGCC TTCATGGCCT ACAAAAGGTT CTTGATGACC ACCACAATCC TCGCTTAATC	6
AAAGATCTTC TGCAAGACCT AAGCTCTACC CTCTGCATTC TTATTAGAGG AGTAGGGAAG	12
TCTGTATTAG TGGGAAACAT CAATATTTGG ATTTGCCGAT TAGAAACTAT TCTCGCCTGG CAACAACAGC TACAGGATCT TCAGATGACT AAGCAAGTGA ACAATGGCCT CACCCTCAGT	18
GACCTTCCTC TGCACATGCT GAACAACATC CTATACCGGT TCTCAGACGG ATGGGACATC	24 30
ATCACCATTC TCGAG	31
(2) INFORMATION FOR SEQ ID NO:1139:	
(a) Intelligible for Edg 15 No. 1113	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 304 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) Interest in the second of	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:	
GAATTCGGCC AAAGAGGCCT AGTTAATACT TATTTTATTT	6
AACTCGCAAA CTTCCAGCAT TTGTCTAAAT CTACTCAATA TATTCCAGTA CATCAGATAA	12
470	

TATATCAGTT TCATCCTCCT GAAAAACTCT TTTCCAGTGT ATCCTGACCT GCTCTAATTT

180

	CTTTCTGTAT CTGGTGCACA GCTGTTACCT TGGAATCTTC CCTTCATCAT GTTTCTGTAG TTTTTCTCTT GCATTGGATT TTGTGCTTCC TGAATCCTCT	240 300 304
(2) INFORMA	TION FOR SEQ ID NO:1140:	
(i) S	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 303 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1140:	
TTAAGATTTT TTTTAGGAAA ATATTCCTTTA A	AAAGAGGCCT AGGGTTTTGT TTGGTTTGGT TTTAGTTTTT TGTGGGAGAA TTAAGAGATA TTTTCAGATT TTTCTGTTGT CAGTTTTGGT AATTTGTGTC ATTTCATTTC ATCCAAGTTG TTGGATTTAT TGGCATAAAA TTTTTCAGAA ATATCCTTCT AATGTCTGTA GAATCTAATC TGTATTGCAG TCTCTTCATA GTGTTTTTTC TATTTTTCC TGGATCAGTC AGTCTAGCTG GGGAGAACTC	60 120 180 240 300 303
(2) INFORMA	TION FOR SEQ ID NO:1141:	
(i) S	GEQUENCE CHARACTERISTICS:  (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1141:	
TACTCTCTCC ( ATGGAAGTAT 1 CTCTGCTCCA ( GCTTCATTC 1	AAAGAGGCCT AGTAGCTTAG TTATTGTTTA CTTTGAAGCC CTTTTGCCTC CATATATCTT CTCCTGACAG GGTGAAGTCA CCTATAGCAT TTCCTAGTGT TAATTTCTTT CTTTACTGGA AGAGCTACTA GCTTTTCTTC ATACAGTTTC GTTTCATAAG TTCTTTTTG GCTTGTATCT GTTTAGGATC AGGTGATATG TCATGACTGA AGCCCGGCAA CATAACACTG AAATTCGAAT GGCAGTCAGC ATAAAAACGGA TCATCTCGAG	60 120 180 240 300 330
(2) INFORMAT	FION FOR SEQ ID NO:1142:	
(i) S	EQUENCE CHARACTERISTICS:  (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1142:	
TTCTGGGGAT ( AGAGAGCTTT (	AAAGAGGCCT AGAGGGGAGC CTGGCCTCTG GCATATTCAT CAAGTATGAG BAGTCACTGT AATGATGTGA GCAGGGAGCC TTCCTCCCTG GGCCACCTGC CCCACCAACT TTGTACCTTG ATTGCCTTAC AAAGTTATTT GTTTACAAAC PAAAAGCCTC CTGCCCCAAA GCTTGTGGGC ACATGGGCAC ATACAGACTC	60 120 180 240

ACATACAGAC ACACACATAT ATGTACAGAC ATGTACTCTC ACACTCCAGT CGAG

(2) INFORMATION FOR SEQ ID NO:1143:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 331 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:	
GAATTCGGCC AAAGAGGCCT AGTTTTAGTT CAGAATAACA TTAATTTTGA GAGATTGAGG TAAAGAACCT TAACTAATGC TAAGGAGTTT ATTTTGATTA ACATAGGTTA TTCTGACCAC CACCTCTTCC TTCCTTAATC TCCTTAGAAT CTGACAGTCT CAAAGCTGTC ACACAAATTA GACTAATTTT GACACTTTGA AATGAAAACT TCAAGGAAGA AGTAGCCACG GACAGTTATG TTTATAATCA GTAGGTGGCA CTCTTTCCTC AGGTAGCCCC CCATTTTCAC ATGATGTGTT TGAAGGTTAA ATGCCACCAA AAGTGCTCGA G  (2) INFORMATION FOR SEQ ID NO:1144:	60 120 180 · 240 300 331
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 508 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:	
GAATTCGGCC AAAGAGGCCT ACTTCAGCAT GACTACTCAG TTGCCAGCTT ACGTGGCAAT TTTGCTTTTC TATGTCTCAA GAGCCAGCTG CCAGGACACT TTCACTGCAG CTGTTTATGA GCATGCAGCG ATATTGCCCA ATGCCACCCT AACACCAGTG TCTCGTGAGG AGGCTTTGGC ATTAATGAAT CGGAATCTGG ACATTTTGGA ACGATCAGCAG CAGATCAGGG TGCGCATATT ATTGGACTC CAGAAGATGC TATTTATGGC TGGAACTTCA ACAGGGACTC TCTCTACCCA TATTTGGAGG ACATCCCAGA CCCTGAAGTA AACTGGATCC CCTGTAATAA TCGTAACAGA TTTGGCCAGA CCCCAGTACA AGAAAGACTC AGCTGCCTGG CCAAGAACAA CTCTATCTAT GTTGGCAA ATATTGGGGA CAAGAAGCCA TGCGATACCA GTGATCCTCA GTGTCCCCCT GATGGCCGTT CGCTCGAG	120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:1145:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 461 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:	
GAATTCGGCC AAAGAGGCCT AAATTGCTGG CGGATTTAGA CCGGTAGAAA ACCCGGGATG GTTTATTTTG ATTGAGCCCC CTCTGGGTGG CAGAGAGGAG GCTTGGGCTC TGGGCCCTTT ACGTTTGGAG AAATGGCTTT ATCAGCTCAG TTGAAAGGTT TTTCCCTCTA GCTAGTGAAA GATAAACTTG GAAATGCAGG TTTCTCCAGC GGTTGGTGGT GGGGACAGGG GTCGCCTAGG	60 120 180 240
472	

TTTTCTAGAG TCATGGTCCT	GGGCCGCGGC CTCTGTTGTC CTCTTCTGGA GAGTGCACTG TTTGTGGAAC TGGCAAAAAC GATCTCCACT GTCGGTGAAA GGGCAGTTCC TGAAGTCAGC GGCTCCCCTT CTCCCCAGCA GTGAACTGGG GGTGACTTCC TGATCTGCCC AGCCCCGCAA AGCGCCTGGG AGGCCCTCGA G	300 360 420 461
(2) INFORM	ATION FOR SEQ ID NO:1146:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 291 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1146:	
CCAATTTCCT GGGGTCTCAC CTCAGCCTCC	TTCATGGCCT ACCATTTTGG ATTGATTTTT GTGTATAGTG TAAGATGAAC TCTTTAGCAT GTGGGAATTC TGTTTTTCTG TCACCCTTTT TTTTTGAGAT TATGTTGCCC AGGTTGGCCA TGAACTCCTG AGGTCATGTG ATCCTCCTTC TGAGTAGCTA GGACTACAGG CATGTGCCAC TGTGCCTGGC TCCAGCAACA AGACTGTTCT TTATTTACTT ATTGTATCCT CTGTGCTCGA G	60 120 180 240 291
(2) INFORM	ATION FOR SEQ ID NO:1147:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1147:	
AGCGGCCAAG GAGAGGGGAG CTCCTGCCAA CCGAAACATT	TTCATGGCCT ACCCACCTGC CCACGCCGAC TTGGGAGGAT GGTGGCCTGC AAGCCAAAAA AAAAAATTT TTTTTTTCA GATACTGTGC TTGATTTTTG AGGTGGAAAT TCCTAAATGG CTAATGCACT GTTCCCTCCA GCCCGAATGC ACCCCTTTTC CCTGCTGCCT CTGTCCCCGC ATCCTTGTTC TCCCCTGGGT TTTTCCGAGG ATGAACAGGG GACATCTTTA GGTTTCTCAA CTCTTGCTTT GCAGCATGGA AAACAGGCAC CCCTCGAG	60 120 180 240 300 338
(2) INFORM	ATION FOR SEQ ID NO:1148:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 385 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1148:	
GCAGACGTGA CCACAGGATG	GATTCACTCA TTAGTAAGCC GCACTCGCTG AAGGGGAGAG CATGAGCAAG GCCACTGCGC CCGGCCTGAA GAGTTTTTGC TAATTGGATA TTAGGGAAAA GATTAAGACA AGAGAGGGAA GGTAAGGTTC TAGACAGCAG GATTATGTCT TTTATGTCAC TTTTCTAGCC AAGCTGTACC ATCCTGTTTT TGTTGGTTGG CAGCTCTTTT CCTCCAGCCC TTGGAAGAGG TGGTCCTATA ATTGTTAAGC	60 120 180 240

ATCTAGCTAG GGTGATGAGT AGGAATAGCA ATAAGTGACA GGGAAGTTGA AGGCTGCAGG GCTCTTTGCA GGCGGCTTAC TCGAG	360 385
(2) INFORMATION FOR SEQ ID NO:1149:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 303 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:	
GAATTCGGCC TTCATGGCCT AGTCACATGA ATGAGAGAAT TCTAAATGCA AGAAATGTGC AAAGGCACAG AAACACAGAA GAGCATGTTG TACAACCTGG CTATAGTTTA GATTTTGTGT GTGTGCTATG AGAAGTGTGC TGTGCTGTGA GTGTGTGTT GGGCGCACGC ACGCATTTGT AGGAGGTAGG GAGAAGAGTG CCGGCATAAC ATGAAATGAT ATTGGACCTC AAATGGTATG CTAAGATGTT TGACAATTTT ATTCTAAGCA GTGAGTTTTT AAATTTAGAC ATGCAATCTC GAG	60 120 180 240 300 303
(2) INFORMATION FOR SEQ ID NO:1150:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 419 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:1150:  GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAATAAGCTG CAAATATTTT TTCCCCAATT TTTCTTTTGT CTCTTTGCTT TATTTCTGGT GTTTATTTTT CCCCAGGTGT ACTGTTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTGT TCACTCAAAG GAAGGTTTTC ACCACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTT TGCTTATGTT AATTTTTGT TTGGAACAAT CTCAAATTCA CAGAAGTGTT GTGAGTACGT TGCAAATAAC TTGTTTTTC CTTATGCATT TCAGAGTAAG TTACCAGTCC GCGCTCGAG	60 120 180 240 300 360 419
GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAATAAGCTG CAAATATTTT TTCCCCAATT TTTCTTTTGT CTCTTTGCTT TATTTCTGGT GTTTATTTTT CCCCAGGTGT ACTGTTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTGT TCACTCAAAG GAAGGTTTTC ACCACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTT TGCTTATGTT AATTTTTGT TTGGAACAAT CTCAAATTCA CAGAAGTGTT GTGAGTACGT	120 180 240 300 360
GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAATAAGCTG CAAATATTTT TCCCCAAATT TTTCTTTTGT CTCTTTGGTT TATTTCTGGT GTTTATTTTT CCCCAGGTGT ACTGTTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTGT TCACTCAAAG GAAGGTTTTC ACCACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTT TGCTTATGTT AATTTTTTGT TTGGAACAAT CTCAAATTCA CAGAAGTGTT GTGACTACGT TGCAAATAAC TTGTTTTTC CTTATGCATT TCAGAGTAAG TTACCAGTCC GCGCTCGAG	120 180 240 300 360
GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAATAAGCTG CAAATATTT TTCCCCAATT TTTCTTTTGT CTCTTTGCTT TATTTCTGGT GTTTATTTTT CCCCAGGTGT ACTGTTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTGT TCACTCAAAG GAAGGTTTTC ACACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTT TGCTTATGTT AATTTTTTGT TTGGAACAAT CTCAAATTCA CAGAAGTGTT GTGAGTACGT TGCAAATAAC TTGTTTTTTC CTTATGCATT TCAGAGTAAG TTACCAGTCC GCGCTCGAG  (2) INFORMATION FOR SEQ ID NO:1151:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 394 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	120 180 240 300 360
GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAATAAGCTG CAAATATTTT TTCCCCAATT TTTCTTTTGT CTCTTTGGCTT TATTTCTGGT GTTTATTTTT CCCCAGGTGT ACTGTTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTGT TCACTCAAAG GAAGGTTTTC ACCACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTT TGCTTATGTT AATTTTTTGT TTGGAACAAT CTCAAATTCA CAGAAGTGTT GTGACTACGT TGCAAATAAC TTGTTTTTC CTTATGCATT TCAGAGTAAG TTACCAGTCC GCGCTCGAG  (2) INFORMATION FOR SEQ ID NO:1151:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 394 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	120 180 240 300 360
GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAATAAGCTG CAAATATTTT TTCCCCAATT TTTCTTTTGT CTCTTTGGCTT TATTCTGGT GTTTATTTTT CCCCAGGTGT ACTGTTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTGT TCACTCAAAG GAAGGTTTTC ACCACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTTT	120 180 240 300 360

	TGGTCCACGG CGGGCTCCCC AGGGATCCCG CCCAGGGTGC CCCCCTTCAT TCTTTCCGCC TGGTCAGCCT CGAG	360 394
(2) INFORM	ATION FOR SEQ ID NO:1152:	
(i).	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 426 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1152:	
AGCTGTTCCG GTCTGCAGCC TTCCTGAATC GCGCTCCTGA TACGGCCGGG	AAAGAGCCTA CTGTGAATCA CGAACTGGCT GAGGGCGGCT GACCGCTTGT GCCATGCACC ATAAGAACCG GCCAAGATGC TTAAATTGAG TGATGGAGAA AACGAAGCCT GTTTTCCTTC CTTTCCTTCC ACTCCCACGC CCCAGTCAGA ATGCTGACCG CATTGGCTC GTCCCTACT GCACAGGTGA GCTTGCCCGT AGCAGGCGCA CGATCTGGGC CTTCTGGGTG GGGGCACATC NGCAGCAGAC CACTGGCAGG CCAGCTCCAT GAACTCGTAC TCATAGTACT TGAGGCAAAC TCTCCCCGAGA TGACCAGGGC ACAATCATGC TTCCTGCGGA AGGCGTTCAG	60 120 180 240 300 360 420 426
(2) INFORMA	ATION FOR SEQ ID NO:1153:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 270 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1153:	
CGGCTTGGAT AGGTGCTGTG CTGATGGGTG	AAAGAGGCCT AAGCTGATAT TTATTGGACA TTTGCACCAT GCCAAGCATT TATCCCATTT GTTCTCACA GCCGGTATTT ATTGTCTGCT CCTCTGTGCC CTCTGGGCAG GGGCACTGCA TGGGCTGCCT GCCCTGGTGG AGCTTGTGGT AGGCTGACCC AAGCCCACCC CATTGCCAAC AGGGCCAGGG CAAGAGTACA TCATACCATA TGTCCTCGAG	60 120 180 240 270
(2) INFORMA	ATION FOR SEQ ID NO:1154:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 582 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1154:	
ACACAAGGAA GTTCCAAGAA ACAGGCAGCA	AAAGAGGCCT AGCTGAAATC ATTCTGAAAA CTCAAACAGT AGACTTCAGC AGCCAAAGCC ATTTGAGGGG GAATAAAGCC AAAAGCCTTT CACCTTATTC TCTCACCGCC CCCTCCTAT CCCCCTCCAA AAATAAGCCA TTGCACACAG TGGCTAGCAA ACGAAAATCT ACAACTCCAT GCATGGTTCG GACATCACAA AAGATGTGCC CGAGGAAGTA GACAGGGCCA AAGAGAAAGG AATCGGCACA	60 120 180 240 300

CCACAGCCTG ACGTGGCCAA GGACAGTTGG GCAGCAGAAC TTGAAAAACTC TTCCAAAGAA AACGAAGTGA TAGAGGTGAA ATCTATGGGG GAAAGCCAGT CCAAAAAACT CCAAGGTGGT	360 420
IATGAGTGCA AATACTGCCC CTACTCCACG CAAAACCTGA ACGAGTTCAC GGAGCATGTC	480
SACATGCAGC ATCCCAACGT GATTCTCAAC CCCCTCTACG TGTGTGCAGA ATGTAACTTC	540
ACAACCAAAA AGTACGACTC CCTATCCGAC CACAGACTCG AG	582
(2) INFORMATION FOR SEQ ID NO:1155:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 279 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:	
SAATTCGGCC TTCATGGCCT AGGATCCGTG AGGGAGACCG CATCATCCAG ATTAACGGTG	60
TAGACGTCCA GAACCGGGAA GAGGCGGTGG CCATCCTGAG CCAGGAAGAG AACACCAACA	120
CTCCCTGCT GGTGGCCCGA CCTGAGAGTC AGCTGGCGAA AAGGTGGAAG GACACCAACA	180
GGGATGACTT CCTGGATGAC TTTGGCTCTG AGAATGAGGG GGAGCTGCGT GCTCGTAAAC	240
GAAATCACC CCCTGCCCAG CAGCCCGGAA ACACTCGAG	279
	213
(2) INFORMATION FOR SEQ ID NO:1156:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 353 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:	
AATTCGGCC AAAGAGGCCT ACATTGTTAA TATAATTTAA CAGAAGTTGT GAAACTAAAA	60
TTTCTAAGA TTAACTGGTA GTTCATTGTA AATGAACATA ATGAACAGAA TTTATGACTC	120
CACTGTGGAA AATGCTATCA AATAACTAAG GAATATATAT GGAATAAGTG TACATATGTA	180
NATATTGTT ACTAGAGTTA GATATGTGCC AAAGTCCATT TATCCCAAAT CCTGTCTGAA	240
AGGAGGGGT ACATTGGTAA ACATTTTGGA GTGCTTAAAA ATGCCAAAAA CAAAATGGTA	300
ATTTCTACTT TGATAAAGTA AAAAAGTTAA ATGTGTGTAA AAAAGTGCTC GAG	353
(2) INFORMATION FOR SEQ ID NO:1157:	333
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 331 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:	
BAATTCGGCC TTCATGGCCT ACGGTGGCCT TTGGGGCCGA AGTGGGCGTG CGGCTCGCGC	60
GTTCGCGGC CTTCCTGGTG ACGGAGCTGC TCCCCCCGTT CCAGAGACTC ATCCAGCCGG	120
AGGAGATGTG GCTCTACCGG AACCCCTACG TGGAGGCGGA GTATTTCCCC ACCAAGCCGA	180
CGTTTGTGCG TGGAGAAAGA TCGTCTTTCC TCCCTCCCCA TGACCGGGCT TCCCGCGGGC	240

ACCTGTGCGT TTTCCACCCC GAGACGGCCT TTGTAGGGAC CCACTGCCCA CTCCGCTGCT GTGCGCTGGG TTCCGCCTCC TAGGGCTCGA G

(2) INFORMATION FOR SEQ ID NO:1158:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 178 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:	
GARTICGGCC TICATGGCCT AAAAACTIAG ACTGACATCI AGCTITGACA ATCATAGTAT GITTITATITI CCTGAGGGGG AATAACITAI AATGCTGITT AGITITGTAC TAITGGTGTG TTGGTGAATI TITAAACTGI GTGCTAACTG CACGATTGAA TICTAGACCI GCCTCGAG .	60 120 178
(2) INFORMATION FOR SEQ ID NO:1159:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 401 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:	
CATGAGTCATC CTTCATGGCCT AAGCACTTTG GGATGTTGAA GTGAGGGGAT TGCTTGAGCC CTGGAGTTCA AGACCAGGCT GGGCAATATC GCCAGACCCC ATCTCTTAAA AAAAGTAGTT CTTTACTGTT GCCTCTATTG ACTCTTGAAT GCAAGAAAGA ACATTTGCCC TTTGACTTCT CATGATCATC TTTGTCTCC TTATCAGATT GTCAAAATTA TATCTTTTCC TATTTTCCTG CATACCTTAT CTTTTCCTA AATTCTCAGT TCTCCAAGTT CTCAGAAATC ATAACTTCAG ACCTTGAAAT GATGACTCTG TTCCACCCC ATCGTCTGA	60 120 180 240 300 360 401
(2) INFORMATION FOR SEQ ID NO:1160:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 350 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOFOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:	
GGGGGGCCAG ACACGCNTGG GGTAAGAAGG GCCTGGTGGG AGGAGTTCAC AGAGCAGACG ETGCACTGGG ACCAGGAGAG CAGAACACAG GCCATAACTA TAGGGCAGGT GGGCAGGAA CGGGTTAAAA ACGAGATCCA AGCCAGCCAG ATCGCAGGAG GTGCGGGGGC GTCGTCCCC ETCTGTTCTC CCCCCCAAGGT CACAGTGCAT GCAATAAAAT ATATATACAG GAGCTAGATC CGTCCTCTGC AGGGCTCTG AGGGTCCAGA GCTCCCTTCG GGTGGCGGA AGCCAGTGGC GCTCCCTGGC GGCCAGGCCG GGCTGGAGCC ACATGCGTCG GGGTCTCGAG	60 120 180 240 300 350
(2) INFORMATION FOR SEQ ID NO:1161:	
477	

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 597 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

GCCCCGGAGC	ATCTTAAGAG	CTGAGCGCAG	CTGACAACTA	${\tt GGGGCCGGAC}$	CGTCGCAGGA	60
GGCGTCCGCT	GGATACCTTC	CCCCTTCCCT	GACCTAGAGC	TCTACAGCTG	CTGCCTCGGT	120
ACTGACCGAG	GGTTCCCAGA	GCTGTCTCAC	CATTGCAAAA	ACGTTATAGC	AACAGCCTCT	180
GATTACGACA	TGGCTGAGAT	CACCAATATC	CGACCTAGCT	${\tt TTGATGTGTC}$	ACCGGTGGTG	240
GCCGGCCTCA	TCGGGGCCTC	TGTGCTGGTG	GTGTGTGTCT	CGGTGACCGT	CTTTGTCTGG	300
TCATGCTGCC	ACCAGCAGGC	AGAGAAGAAG	CACAAGAACC	CACCATACAA	GTTTATTCAC	360
ATGCTCAAAG	GCATCAGCAT	ATACCCAGAG	ACCCTCAGCA	ACAAGAAGAA	AATCATCAAA	420
GTGCGGAGAG	ACAAAGATGG	TCCTGGGAGG	GAAGGTGGAC	GTAGGAACCT	GTTGGTGGAC	480
GCAGCAGAGG	CTGGCCTGCT	AAGCCGAGAC	AAAGATCCCA	GGGGGCCTAG	CTCTGGATCT	540
TGTATAGACC	AATTACCCAT	CAAAATGGAC	TATGGGGAAG	AACTAAGGAA	CCTCGAG	597

- (2) INFORMATION FOR SEQ ID NO:1162:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCC	TTCATGGCCT	AGAAATAACT	TAAAATCCTG	AATCAGATGT	TTCTCCGTAC	60
ATGGCCTATC	CAGATCACCG	TAGGGTGAAG	CTCAAAGTCA	GCAAGCCTCA	CCCACATACT	120
CAGAĞCTTCC	TTTCAGTGTT	GAGACCTTCT	TCCCTCTGAG	CAGATGACAA	AGGAGTTTGA	180
AACCAGCCTG	GCCAACATGG	TGAAGCCCCG	TCTCTACTAA	AAACACAAAA	ATTAGCTGAA	240
ATGGTGACTG	TAATCCCAGC	TACTCAGGAG	GCTGAGGCAG	GAGAATCGCT	TGAATCCGGG	300
AGGCGGAGGT	TGCAGTGAGC	TGAGATCGTG	CCATTTCATT	CCAGCCTGGG	CAACAGAGCA	360
AGCCATCACA	GATTTGGGAG	CAACCAAGAA	AGCCAGGGAC	AGGGTATGCT	TGGTAACCTG	420
GCAAGAGCTG	ACAAAGGGGA	AAAATAAAAC	CCCACAGAAA	GAGCAGGGAA	CTCGAG	476

- (2) INFORMATION FOR SEQ ID NO:1163;
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 482 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

GAATTCGGCC	AAAGAGGCCT	AGATGAACAT	GAACCTGCGG	GAGCTGTACC	TGGCGGACAA	60
CAAGCTCAAC	GGCCTGCAGG	ACTCGGCCCA	GCTGGGTAAC	CTGCTCAAGT	TCAACTGCTC	120
CCTGCAGATC	CTGGACCTCC	GGAACAACCA	CGTGCTAGAC	TCGGGTCTGG	CCTACATCTG	180
CGAGGGCCTC	AAGGAGCAGA	GGAAGGGGCT	GGTGACCCTG	GTGCTGTGGA	ACAACCAGCT	240
CACGCACACA	GGCATGGCCT	TCCTGGGCAT	GACACTGCCG	CACACTCAGA	GCCTGGAGAC	300

GCTGAACCTG GGCCACAACC CCATCGGGAA CGAGGGTGTG CGGCACCTCA AGAACGGGCT	360
CATCAGCAAC CGCAGCGTGC TGCGCCTCGG GCTGGCCTCC ACCAAGCTCA CGTGCGAGGG	420
CGCGGTGGCG GTGGCGGAGT TCATCGCTGA GAGCCCCCGC CTCCTGAGAC TGAACCCTCG	480
AG	482
(2) INFORMATION FOR SEQ ID NO:1164:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 494 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:	
•	
GAATTCNGCC AAAGAGGCCT AAGGAGCGCT GTTAAAGCTG ATACATTCCT GTGGGTCAAC	60
TATGCAACTA ACTCAGATTT TGAGCAAACA AAGCTCTCAA GTTGGTGATC CTCAGGAGTC	120
TCTGCATTAG TTGGACAGCT CTTCTGGAAT TATCTTCTAA GTCAACTGTG GGTTGGGTAG GTGGCTCTGC TGATTTTTCG CTGGACTTCC ACATTTGGGA CCAGTTGGCT GTNATCAGCT	180 240
CTAGAAAGGG TGTGGCTGTT TTACATTGGC TGTTTTCCTC ACATTCCTCA AGCAGGTACT	300
GTAATAAAGA ACTGGAGAAA TACAGTCAGA TGGGAAGTAG CCCCTGCTGT CAAGGAGCTT	360
GCCATCTAAT GGGGGAGACA GGCAAGTAAA CCAAAGACTA CACAGTGCAG TATGGTAAGT	420
GCCATGATTT TGATGTGACA GGGCACAGTG GACGACCTTC CAAATCAAAG CAAGTAACTA GGGGCAGACT CGAG	480 494
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(2) INFORMATION FOR SEQ ID NO:1165:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 298 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:	
GAATTCGGCC TTCATGGCCT AACTCTTATC TGTGAACACA ACTTTTCAGC ACTACAAATG	60
CAAGCAACTG CGCAGTCACA GTTGGGGCTG CTAATTTGGA AATCCAGTTT AGGCTGATTT GAAAAGACAA CAGCATTTTT GCAATCACTG GTGTATCCTT TACGAGAGAG CTAGTCATGC	120 180
CATTTTTTGT TTTCTGAAGA CGGCCTTTTT TTCTTTTTTA TTATTATTAT TTTTTTAAAT	240
TTGGGATCTT GCCTAATTCT TTAGTACAAA GCCTGGCCCT AAAACCGTAG AGCTCGAG	298
(2) INFORMATION FOR SEQ ID NO:1166:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 266 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

(ii) MOLECULE TYPE: cDNA

AGTGGAGCCA	GATTCAGAGA	ACTTTNAGAA	GCAGGTAAAG	AAGTTTAGGA	TTAATGGACA	180
AGTCATTGGG	TCTCCAGGTT	TCTTTGAGGG	AGAGTGATAT	CTGAGCTCTG	TTTTAGAAAG	240
ATTAATCTGA	AAGGAGGTAA	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:1167:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 499 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

GAATTCGGCC	TTCATGGCCT	AGGTAAATAA	TGCCAAGTTA	CTGGGGTCTA	GAAAGAAAGT	60
TTTCTCTTGG	ATCAAGAGAG	TGTGAGTTTC	CTAAGTTTCT	TCAGCAGGGA	TGTTGGTCCT	120
TTAGTTAGGA	GGTTTAAAAT	CACCAGGAAG	TAAGGGTGAG	GAAGAAAGTC	TGGGTCCATG	180
TTTGAGAAGG	TGACTGATGG	TGGTGGAAGT	CCTTCCTGTG	ATGAGTTAAT	GATGCGTATT	240
TCTGATAAAG	ATGGGAAGTT	ATTTACATCG	ACATTAACCA	AATCTACCCT	TCATGCAGAA	300
AGAAAGAGCT	CTTGGGCCAT	TCTCTATTAA	TGAAACCATA	CCAGGGTCAA	TATTACAGTG	360
TCTCTGAAAT	ACACTGAAAA	TACTTCCCTG	GCTCAGGTGG	TGGCCCATGC	TACCTCCAGG	420
CAGTTCTACT	TGATTAATGA	TGCAATGGAG	ATAATCCTAT	TGCATCCACC	ATCAAGGAGA	480
GTTGGGCAGT	CAACTCGAG	•				499

- (2) INFORMATION FOR SEQ ID NO:1168:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 425 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

GAATTCGGCC	TTCATGGCCT	ACACAAACAA	ACCCAGAATA	CTCTATTACT	GTATTTGTGG	60
GGTACAATCC	ACTCAACTCT	ATTATGAAGC	CCAAAAAATA	AATCTGTTAA	AAACAATAAT	120
AGCTACACCA	ACCTGTTAAG	AGATAGGTAA	TATAAAAATA	TATAGTTTGA	GACAACTAAA	180
TCAAAATGGA	GGAGGGGATA	GAGTTCAAGA	AGTAGAATTT	TTTTGCGTGT	GCTTTTCTTG	240
GCCTTTGTTT	GCTTCTATTC	TTTTATTTGG	AATCAAAGAT	AAGTTATCAA	CTCTTTAAAA	300
TAACTTGTTA	TATGTATAAG	ATGTTTTCTG	TAAGCCTCAT	GGTAACCACA	GTACAAAAAC	360
CTATAGTACA	ATTCCTAAAA	ATAAAATACA	AAAAAATTAA	AATATACTAC	CAGAGAGCTC	420
TCGAG						425

- (2) INFORMATION FOR SEQ ID NO:1169:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 318 base pairs
    - (B) .TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

GAATTCGGCC TTCATGGCCT AAAAGGTTTG ATCTTGTAAT GTGTCACTGT GTTTCCTTAG TGGCCAGCCA GCCTTCAGAA TAGCTAAAGG CCTTCCTTCC TTCCAGTCAG CCTGAGAGAG AACACCTGTC CCCTAAGCAC CTGGTGTCTC CATTGGAGGC AGACTGCTCT CAGGAGACTA CTAGAAGCTT CAGCCCGGAA GACAGGCTGC TCTCTCATGC TGGTGGCCCA AATTGAGAAA GTGGTGTCCC TTCCTGATTT TGCCACCAGC CCTACCGAAT AGTTGTAAAC CAGTATCAGG AATTGGGATC CTCTCGAG  (2) INFORMATION FOR SEQ ID NO:1170:	60 120 180 240 300 318
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 346 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:	
GAATTCGGCC TTCATGGCCT ACATTGGTCG TTTTATTGCC ATGGCACTAT TTCATGGAAA GTTTATCGAT ACTGGTTTCT CTTTACCATT CTACAAGCGT ATGTTAAGTA AAAAACTTAC TATTAAGGAT TTGGAATCTA TTGATACTGA ATTTTATAAC TCCCTTATCT GGATAAGAGA TAACAACATT GAAGAATGTG GCTTAGAAAT GTACTTTCT GTTGACATGG AGATTTTGGG AAAAGTTACT TCACATGACC TGAAGTTGGG AGGTTCCAAT ATTCTGGTGA CTGAGGAGAA CAAAGATGAA TATATTGGTT TAATGACAGA ACGGCGTTCG CTCGAG  (2) INFORMATION FOR SEQ ID NO:1171:	60 120 180 240 300 346
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:	
GAATTCGGCC TTCATGGCCT ACACTTTATT CCCTTTTAAG TCTGGTAAAG AATGAATACT TGGACGTTTT GTTTCATGCA GATTTAGTTA GCAACTCGAT TATCAAATGG TAGAATACT GTATGCACTG AAGCCAAATT CTCAGTAACT CAGCTTTTGN TAGTCATATG AGGATGATGA ATAATAGGAN TCCAGAGCAG TTAACAAATT GATACAAGTG GTAGGAAAAT TTGATATGAA (2) INFORMATION FOR SEQ ID NO:1172:	60 120 180 240
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:	
GAATTCGGCC TTCATGGCCT AGTTTCNTTT TTGTATCTCT ACTGATATCA CCAGGATAGT NTACTCTCCT TCTAGCTTTC TGCTTACCGC ACACTGGATA ACACACACAC ACACACCCAC AAAAATGCTC ATGAACCCAA TCCGGAGAAG GTTCCAGCAG GTCCCCCACC CTCCCCTCCT CCTCCTACTT CTCCTCTTGA CAGCGAGGAC AGGAGGGGAA CAAGGGGACA CCTGGGCAGA	60 120 180 240
401	

CCCGCCGGCT CTCCCCCAC CCCACCCCCA TCTCGAG

(2) INFORMATION FOR SEQ ID NO:1173:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 258 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:	
GAATTCGGCC TTCATGGCCT AGAAAAGTCT AGAAAATAGC TTAAATAACA AACACGTGTG GATTTGTTAG ACCAAGAGCA AGGGAGACCA TTTAATGCAG TTATTTAACA ATATTTAGTA CTTTCCTTTA CCTTGTCTGC TGTGCCATCA TTCATGCCTG TCAGTGTTAA AAATCCCCAA ATTTCCCAAA CAGATTTTCA TTTCACTTCC GTCAACTTTT AAATTAAAGT TTTTAAATTC CTGTCCCCAC TCCTCGAG	60 120 180 240 258
(2) INFORMATION FOR SEQ ID NO:1174:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 334 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:	
GAAAGTTGCT TTTGATGTCA AAATGGAAAA TGAAAAGTTA GTTTTAGCAT GTGAAGATGT GAGGCATCAG TTAGAAGAAT GTCTTGCTGG TAACAATCAG CTTTCTCTGG AAAAAAAACAC TATTGTGGAG ACTCTAAAAA TGGAAAAAGG AGAGATAGAG GCAGAATTGT GTTGGCTAA AAAGAGCCTG TTGGAAGAAG CAAACAAGTA TGAGAAAACC ATTGAAGAAT GTCTTGCTGG TAACAATCAG CTTTCTCTGG AAAAAAACAC TATTGTGGAG ACTCTAAAAA TGGAAAAAGG AGAGATAGAG GCAGAATTGT GTCGGCCACT CGAG	60 120 180 240 300 334
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 403 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:	
GAATTCGGCC TTCATGGCCT AGTGCTTGAA CTCACGCATC TGTTTTACCT GCATCTGCAG GCGATGGGC AGGGGCCACG GAAAGAGTCT GAGGGCTGCT TGGTGTAGTC AGGTTGTGTC CAGGCATGCG GAGCTGTGAG TGCCTGCAGG AGAGACACCC AGGAGGAGTT TTTACATTTT GGTCTAAAAA GCTCTTGGAT TCATCTCATC TCATGGAATG ATCCTGTCGG ATGACGCTGA CGTGATTGCT TCAGACTTAG AGGTGAATAA ATTGAGGTCC AGAGAGGTCA CAGTCACGAA GCTCATGGTA GACTGAGGCC ACTAAACACC CGTCTCCTGA TTTTCAGTGG CGTCCTCATT TGCATACACC TGGGCCATCT TGGTTTTTGC AAGAAAACTC GAG	60 120 180 240 300 360 403

- (2) INFORMATION FOR SEQ ID NO:1176:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 590 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

GAATTCGGCC	TTCATGGCCT	AGGTACCTTG	AACATGGCTG	TAAATTAATC	TTTAACTGCC	60
TTGGTGGAGT	CTTCCTGATT	TATTGAAGAG	AATAATCACG	TTTAATAAAA	TTGTTTGTTT	120
TTTGAGACGG	AGTCTCGCTC	TGTCAACCAG	GCTGGAGTGC	AGTGCCACGA	TCTCGGCTCA	180
				TGAGCCTCCT		240
				TTTTTAGTAG		300
TCACCATGTT	GGACCGGGCT	GGTCTCGAAC	TCCTGACCTC	AGGTGATCTG	CCCTCCTCAG	360
CTTCCCAAAG	TGTTGGGATT	ACAGGCATGA	GCCACCGCAC	CTGACATAAA	TATTTAATGT	420
AATACCGTGT	AAGACTTTTC	CATTGGGTTT	TGAGAAACAC	GTTAATGAGA	GAAATTGCTT	480
				GGGGTGAGGA	GGAACAACAT	540
CAATTAAGAT	TCAGATTTAT	TATTTAAAAA	AACTAAAAGG	CGGCCTCGAG		590

- (2) INFORMATION FOR SEQ ID NO:1177:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 562 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

CTCGAGGTAG	CCACAGTCCT	GATCCTAGTG	ACAAATGGGG	GCATGTGTCT	ACATCCGGGT	60
CGGCGGAGGG	CTCATTTCAT	CTGGCCTGGG	GGGAAATGAG	TATTAATTTG	TTTACACAGA	120
CGTAAACACA	GCCCAAAACG	CATCAGCACG	TTGACTCAAA	CGCCCGCAAC	GCCAGGGCAA	180
AGGCAATTTG	GTTAACAGGG	GGAAGCGAAC	AGACGGAGAC	GCCTGGAGAC	CCAGGTGCCA	240
CAACCCGGTT	AATCGCGGTG	CAAATAAGGG	CAAGTCCCCT	CCCCTTGTCC	GTGTGGTCTT	300
GACAACGACA	CTAGTTCATT	CTACTAACAA	GGCGGGCGGG	GGGTCAGATG	GGCCACACAC	360
ACCCATTTTC	CTCAACGGGA	CCCCAACGCG	ATCTCAGCCT	TGCTGTGCTA	CTTTAGGGCA	420
AGACGCGTTC	CCCATTCGGA	AGCCGCAGGA	AAGCGCGGCG	AGAGCGGGTT	AGCCCTCGGA	480
GCGGCTAAGA	GCCTCGGAAT	AGCGCAGAGG	AAGTCCCCAC	CCCTCTCGGG	GCTGGGAGCC	540
	AAGGCCGAAT					562

- (2) INFORMATION FOR SEQ ID NO:1178:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 339 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

GTGATCTGAC TCT TGGTGTCCAC CGC AGTCACAGAA ATC	PATCTGCA AGGTAGTGTT GG CAGAATTG ATTTCATGTT TGG CTGTGTTG ATTGTTGTGG CA CCTTCCCA AGATCCCGGC TAL	AAGTGAAC AGGGTTGGAG GTATGCAG GGACCCCCCA TGAAAGCA GGGAAAAATA	AATGCCCAGC CTCCACACTT	120 180 240 300 339
(2) INFORMATION	ON FOR SEQ ID NO:1179:			
	UENCE CHARACTERISTICS: (A) LENGTH: 353 base p (B) TYPE: nucleic acid (C) STRANDEDNESS: doub (D) TOPOLOGY: linear	airs		
(ii) MO	LECULE TYPE: cDNA			
(xi) SE	QUENCE DESCRIPTION: SE	Q ID NO:1179;		
ATGCCAATGA ACG GCTTTGATGA AAG AAAACTCTTC CAA TTCACAAAGA CAG	ATGGCCT ACTCACCGGA GAR AATGCTA TTTCATGGGT CTC GCATGCG TACATAGGTG GTR AAGCAAT CAATATGTAT ATC ATCTTGT TACATTTGCC ACR CCTGCAG TTCAGTGCAA TGR	CCTTTTGT GAATGCAATT ATGTTTGG AGCTGGCATT GGAATTGG AGGAGGTACT AGGCAGCT GCTCTTTTGC	ATCCACAAG TATTTTGCTG GGGTGTCCAG CGGGTAACCT	60 120 180 240 300 353
(2) INFORMATIC	N FOR SEQ ID NO:1180:			
	JENCE CHARACTERISTICS: A) LENGTH: 296 base particles B) TYPE: nucleic acid C) STRANDEDNESS: doubles D) TOPOLOGY: linear			
(ii) MO:	LECULE TYPE: cDNA			
(xi) SE	QUENCE DESCRIPTION: SE	Q ID NO:1180:		
AATCTCTGAT AAG TTATTATTGA TTT ACTTTCTGAC TGT CAAGCCATCC TCC	GAGGCCT ACAGAGTGCT GTG TTTCTTT TTATCTAAAG GTT GTTCGAG AACCTGAGTT TCT GTTTGCC CAGGCTGGAG AGC CGCCTCA GCCTCCAAG TAA	CCACTTT GTTCATTACT TGACCTG TGTGATTTTG AGTGGTG GGATCATAGC	TTTTGTTTCC TACCACCTGG TTACTGGACT	60 120 180 240 296
	N FOR SEQ ID NO:1181:			
. (	JENCE CHARACTERISTICS: A) LENGTH: 277 base pa B) TYPE: nucleic acid C) STRANDEDNESS: doub! D) TOPOLOGY: linear			
(ii) MO	LECULE TYPE: cDNA			
(xi) SE	QUENCE DESCRIPTION: SE	Q ID NO:1181:		
CATATCTGCT ATT CCCAGGTAAT CAT	ATGGCCT ACTTGAGTTG TAC TTTTATC CTTTGACCTA CAT IGTTTTA TTCCCTTTCT CTG ATCATGA TCATGCGGTA TTT	TTTCCCA TTTCCTCCCA -	GTGTTCTCTC TTTGGATTCC	60 120 180 240

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TAGTATTATG TCCTCCAAGT CTACCCACGA ACTCGAG	277
(2) INFORMATION FOR SEQ ID NO:1182:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 192 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:	
GAATTCGGCC TTCATGGCCT AGAGATACTG GCTGGCAATT CTTGGCGTTC CTTGGCTTGT AGCTGTAAGA TGCGCTCTAA TATCAGTCTC TGTTGTCATT TGCCTTTTCT CTGTGTCTGT GTTCAAATGT CCTTTTTTT TTTTTTTTTA GGGAGTCTTG CTCTGTTGCC CACTCAAACT GCTGGGCTCG AG	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:1183:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 296 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:	
GAATTCNGCC AAAGAGGCCT AGTAAATAGT TGTTCTGTTA CATTGTTTAG AGAATAATGA CAAGAACAAA AATCTGTGTG TTCAGTATAG ACACAACCAT CCTTTTTTTTTT	60 120 180 240 296
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 234 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:	
GAATTCGGAC TACTACAGGT GATACTACAG TGACTACTAC AGTAATTCGG ACTACTACAG GTGGCTAATT CGGATTACTA CAGGTGGACA TAATTCGGAC TACTACAGGT AATTCGGACT ACTACAGGTG AGCTAATTCG GACTACTACA GGTGGACATA ATTCGGACTA CTACAGGTGC ACCTGTAGTG GAGAACATTT AGCAATGATA AAGCCGCTGC TGATCCTTCT CGAG  (2) INFORMATION FOR SEQ ID NO:1185:	60 120 180 234
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 300 base pairs (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GAATTCGGCC	AAAGAGGCCT	AGAACAGTTT	AGAAACAATT	TCCCTGCCTT	TGCTTTGGGT	60
TCCCTGTGAT	TGTTCTCCAC	ACTGTTTTCC	TGGCTCTATC	TGTCTCCCTT	GCCACGGCCA	120
CTCAAGCCTA	GCTGCCCAAC	AGCTCCTTCC	CTGAAGAACC	CCGGCCTTCA	GGCTTGACAG	180
GTGATCTCAT	CCCTCTTCTT	TTCCTCCAGG	TTGTTGTAGA	CTTCCACCTT	CCCTTCTTCT	240
CCTGGTCCTT	TCCCCTTTCT	AGTGCCAATG	TGGGCCACGC	TTTCATCCCA	CCTACTCGAG	300

- (2) INFORMATION FOR SEQ ID NO:1186:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

GAATTCGGCC	TTCATGGCCT	AGTGATGAGC	CCTCCTCTTC	AGCTAGGAAA	ATGACGGTGT	60
TCAGAAAGTT	AAAACTTCTT	CGCTGGAAGG	ATTTCATCTT	AAAGTTGGGA	GACTGGAAGA	120
AATTAAAGTG	TTCTAAATGG	AAGAGCATTC	ACCACATGTG	TTCTGTTTTG	GGTTGACATT	180
TAGCTTTTGT	TTTTATTTA	GAAACGGAAG	ACTCTGGTAG	CAGTCCTTGA	AATCTTGATG	240
CCATTGCTAT	TTTCTGCATT	GTATTGTATC	TTCGTTTTAG	TAGTGCTCCA	ATAAAAAGAC	300
CTGCTACTAG	CTGCAAAACT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:1187:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 308 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

GAATTCGGCC	TTCATGGCCT	AGTACGTTGC	TGAAAAGAAG	TTTATTGCTA	TTTTCTTATT	60
TTATTATACA	AAACTAGATT	TGCTTAAAAC	ATTTCCCAGT	CTCTTTAAAG	GAATGCTAGT	120
TAGTGGGAGG	CCACAGCTAG	TAAATTACCC	TCAGTAGTGG	TTTCAAGTAG	TCCATAACTA	180
TAAAAATCGT	TACGGCCAGG	ATATGCCGGA	ACAGAACACT	CCCCACTGGG	GTCCTCAGCC	240
TTGGATGTCA	GCTCGGCCCC	TCAAGGGGTC	CCTACACCTG	GAAGCTGATT	CCACTCATCA	300
GTCTCGAG						308

- (2) INFORMATION FOR SEQ ID NO:1188:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 251 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTCGGCC TTCATGGCCT AGAATGAAGA AGGTTCCCAA GAAGTTAG	AG GAGATTCCCC 6
CAGCCTCTCC GGAGATGGCA CAGATGAGGA AGCAGTGCCT GGACTATC	AT TACCAGGAGA 12
TGCAGGCTCT GAAGGAGGTC TTCAAGGAGT ATTTGATTGA ACTGTTTT	TC TTGCAACACT 18
TTCAAGGGAA CATGATGGAT TTCTTAGCTT TCAAGAAGAA ACATTATG	CC CCATTACAAG 24
CACCACTCGA G	25:

- (2) INFORMATION FOR SEQ ID NO:1189:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 359 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCGGCC	TTCATGGCCT	AAGGAGTTGG	AAATTGTGCA	CAAAGAAAGG	TGGTGAATAA	60
GTAAAGTCGT	AAATTCAAGA	CCACAACAGA	AAGCTTCACT	GCAGACACTG	GACTTGAACC	120
			ATAATTAGGA			180
GAATTTATTG	TGGGCAAGCA	TAGGAATGAG	AAAGTAÇAAT	GAAAAAATGT	AAGTAGACCC	240
ACCAAGTTAG	AGAAGAAGGT	CCTGGTTAAG	AAAAATGAAA	GATTTTTTTG	AACAACAGAT	300
TAATGTGATG	AAATAGATGT	TCAAGAGTGA	AGATAAGTTG	AAGATAGGGA	CCCCTCGAG	359

- (2) INFORMATION FOR SEQ ID NO:1190:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 245 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GTTGTTAGGC	TGGTGTTGTT	ATGTTGCTGT	TGTTATGCTG	GTCGTGCTGC	TCCATGTTCT	60
CCAGGTGTTC	TTCCCTTTTA	TCGTCACAGT	TACCCCGTAC	ACCTGACAAC	TGGACATCTG	120
					TGCTTCCGCC	180
TCCCCGTGTC	TGTGAGCGCC	TCCACTGCCC	ATCCCTCTGC	TCAGGCCCCA	TTTCCAGGGC	240
TCGAG						245

- (2) INFORMATION FOR SEQ ID NO:1191:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 257 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC TTCATGGCCT AGTCTCAAAA AAAAAAAAA TGAAGCATAA AAGGTTAATA GCCAGAATCA TTTATCAATT GACACAATCT GAAAATGAAA TTAGAGAAAC AATTTCACTG ATCTCAAAAT AATCATCATC ATCATCATCA TCATCATCAT CCCATCCAAC GCTCGAG	GTATTTCTAT GGCAACAAGA	ACATCTACAA GCAAAACTTC	12 18 24 25
(2) INFORMATION FOR SEQ ID NO:1192:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 748 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1	1192:		
GAATTCGGCC TTCATGGCCT AAGGACATGG CAGAGTTCCT C TTTAAGGAGG TTTGAGATTC AAGGGCTTTT TTAATTTTAA A TGTGTGTTAA TATGCTGAGG GAAGTTGCCA ATAGTGAGAT C TAGCAAGGTG ACTGCACCAG ATACCTGGAT CTGGGCAGGA A TGTTGACCTT GAGTGACAGG GTATAATGTT TGGGAAGGTG C AATACAAACA TGTAGTACAC CTTCTCTGAG ATCCGGGAAA C GGGGCTGGTC ATAGGCCACT CTCCCCTACT GTTTCTCTAG A AGTCTCAGAT GCCTCGACCT TCATGGCCTA GAGAGTTCTC A GACCCGGAGG AAACTAACCT CAACCTCTGC CATCACAGG C GTTTGTGGCC CTCCTGAAG GGTTTAAAGT TTCAGATGAG C GTTTGTGGCC CTCCTGAAG GGTTAAAGT TTCAGATGAG C GGAGATGTAC AACCCCAGTC GACTCGAG  (2) INFORMATION FOR SEQ ID NO:1193:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	AATTAACCAT GAAAGATCTA ATAAACCTCA CTTTGTAAAC GGACAACCTG ATCAGAACAG GATCTCCGGA CAACCTAACA GTGGGCTTTG	GGTAGAAACC GGCAAGGGGA ACAGTGATCA TATAAGGGGC AGCATAGGTT GTCCCTAGGCA GAAGGCAGTG GAAGGCAGTA TCAAACAGAA GGCTGGAGCA	60 120 240 300 360 480 540 600 720 748
(ii) MOLECULE TYPE: cDNA			
(II) MODECODE IIII. CDMA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1	193:		
GAATTGCGAA CATGGCAGCG CGTTGGCGGT TTTGGTGTGT CGCTGCTCAT CGTTTGCGAC GTTCCCTCAG CCTCTGCCCA ATACTGAAAA GGTTAGTCAG CTGATGGAAT GGACTAACAA ATGGAGACAA GTTCCGTCGC CTTGTGAAAG CCCCACCTAA	AAGAAAGAAG AAGACCTGTA	GAGATGGTGT	60 120 180 227

- (2) INFORMATION FOR SEQ ID NO:1194:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 258 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

GAATTCGGCC TTCATGGCCT AGTATATATA TAAAATACTG AGGATTTAGG GCTGATGTAT ATAAATAAAA TACTGATAAC TTTTTTCCTT TCTTTTTCTT TTTTTTTTTGA GATAGTGTCA TGCTCTGTTG CCCAGGCTGG AGTACAGTGG CACCAAACCG CTAACTGCAG CCTTGCCCTC CCAGGCTCAA GCAATCCTCC TGCCTCAGCA CCCCAAACCG ACCTCGAG	60 120 180 240 258
(2) INFORMATION FOR SEQ ID NO:1195:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 314 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:	
GAATTCGGCC TTCATGGCCT AATGAATTCT CATTTCCTGG AGGCTGAAGA TCTGTGCAGG TGTCTGTGC CAATGTTAAG CCTACGACTT TAGATGAGCT GGCATAAATC TTGGGAGAGT TTTCTTGTCT GTGTCCCTC TGAATTCTC TGTGCTGTTA GAGGCAGGGA CAGAAGAGAA CCAGCATGGC AGTGCTGGC TCAGGGTGAT GCCTGCCTGC CAGCACAGCG GTTCTTGTCC CTGTCCCACA TTGCTTCTTG GAAGCCTTTT TACAGCCTCA ATCATCTTGC TTTTCTACC GCAGCTATCT CGAG	60 120 180 240 300 314
(2) INFORMATION FOR SEQ ID NO:1196:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 385 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:	
GAATTCGGCC TTCATGCGGG GACTTCCACT CTTTCTCGTT TTCTCGGAGC TCCGCCTCCA GCTCCTCTAT CTTCCTCTC AGCTGCGTGT TCTTCTCCTC TCTGTGGATC TCACGGCCTC TCCCTCTGCT CCACGCTGGC CACCGACTCC TGCAGCGCCG TGGGCAGCCG GGCGTCGCTC TCCCGCCGGG TCTGCAGCTC CATCTCCCAC CTCTTCCCGT GGGCAGCTCT CTGCGTCGAG	60 120 180 240
GCCGCCTTCA GCTTGTGGTT CCCAGACTGC AGGTGCGTGT CAGCTGCAGC GGCCTGAGAG	300

- (2) INFORMATION FOR SEQ ID NO:1197:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 256 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

GCCTTTCATC GTCCGTCCCG TTGACACTGG ATGCCGGAGT AGAAGATGGG GCTCCATGCC CGGATTCTCG GGATTATTAC TCGAG

360 385

 $\frac{\mathcal{A}_{i}}{\mathcal{A}_{i}} = \frac{1}{2} \left( \frac{1}{2}$ 

CCATTTCAAA AAAAAATCTT AAAAATACGA AGTTTTTCAT TTTTCTTAAA TTTTCATTGT GACTACTTTA GTAGACTTGC CAGTAATAAG CCAGTTACCG CTTGAATCTC AGTTTCTTTA FCTGGAAAGT GGTCATTATT TATCTGCTGT CCCCTTACCT AGAGGGAATC AAATGCGTTT GATACAGGTT CTCGAG	12 18 24 25
(2) INFORMATION FOR SEQ ID NO:1198:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 446 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:	
GAATTCGGCC TTCATGGCCT AGAGAGCCCA TCTCCATCTG CCAGCCTGGA AGCAGCCATG GCAAATGGGA TGTGTCCCAC TGCCCCCGTT TGGTGCCACA GTTGGGTTTA TTCTCACAGC TGCAAACCCA CGTGCTGGGC TGCACAGCTG CCTGAACGAA GCTGGAGCGT GCAGAACAAA CTGCATGGAA TGTCACGTGG GGTTTTCCAC TCTCGCCCAC AGTGAGTTGG CAATGCCTGG CCACGTGTGC TCTGTGGTCT TTGAACTTGA TCTGGGAGGA CAGAANTTCA AAAGGAAGAT GAAGGCCCCA GCAAGGGAGG TATTCCTGTC TTGAGCAGAA GGTAAAGGTA GAAGGTGCAG ATTAGGTACT GGGAATAGTC ATGGTTTGGT TTGAATGGAG TAGAAGATTC CAGAGGAAGA GCAGTGGGGC ACAGTGGCTC CTCGAG	66 120 180 240 300 360 420 440
(2) INFORMATION FOR SEQ ID NO:1199:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 369 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:	
GAATTCGCCT TCATGGCCTA AATTGTAGCT AGGAAAATAA TATATGTCTT AGTTTAAGAA CTCATACTCT GGAATCAACT CATTGCACTT TCCTATATGT TTGGCCATGG GCAAAGCACA CACCTCTTA ATCAATTGGC TCGTCTCCAA GGTGAGGATA GTTATACTTA ATCCTCTTTA GGAGTGAGAA TAAAAATTAA ATATGTGTGT AGCATAGTGT CTACAATGTT AGAGGTATTT GAAAAGTGAT AGTTTATTTT TTGGAATTAT TTAGCATTAT TAAAAACAAG GGGGAGCACA CGGTGGCACG TTTCTGGTCC CAGCTACTTG GGAAGCTGAG GTAGTAGGAT CGCTTGAGAT CCGCTCGAG	60 120 180 240 360 360
(2) INFORMATION FOR SEQ ID NO:1200:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 483 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:	

60

GAATTCGGCC TTCATGGCCT AGACAGGTTG CTAGCTACAT GGGTCTCTGA AGAAGAGTTT

TCCAGCAGAA GGAGCAACTA GTGCAAAGCC CCTGAGACAC AACTGCACCT ATCCAGATTA

AGGACCACGG AGGAAGCCAC TGTAGGAGCA CAAAAAAAGT AGGAGATGAA CAGAGAGGTG AGGAGAGCTC CGTAGGTCCT AGTATGCACT TTGGCATTTA TTTACTGATT GAGATGGCAG GTCATTGGAG GATTCGGAGC AGAGGAAGGA TATAATCTGA CATTTTAGCAG GGATCCCTTT GAGATAAGTTA GCTGCGTAGA CCTAAGAATGA ACAAGGACAG CCACAGCAAG ACCTGTAAGG AGACTATCCCT TGTAATCCAG GCAAGAGATG ATGGCAGCTT GGACCAGGGT AGTAGCAGTG GAATTGATGA GAAGTGGTTG AAATCTGGAT ATATTTTGAA GATGGAGCCC ATGGGGTCTC GAG	180 240 300 360 420 480 483
(2) INFORMATION FOR SEQ ID NO:1201:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 192 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:	
ACCATATAAT TTGCCACTTG AAGTGTACAA ATTCAGTGAC TTTTAGTAAA TTCACAGTTA IATATCATT AGGATATTCA GAGTTATATA TTCATCACCA CAGTCACTCT TAGAACATTT IAATAACCTC AAAAAGAAAC CATGCACTCC TTAGCCATCA CTCCTAACCC AACTCTCCCT CTACCGCTCG AG  (2) INFORMATION FOR SEQ ID NO:1202:	60 120 180 192
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 281 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:	
GAATTCGGCC TTCATGGCCT ACTTTAAACA TGTGGTCTTA CTGCCTGCAA ACACATACAG ACTCTTAATT TTTATTTACA TAGATGTAAA TATACACATA TATTACTCTA AAGATAAACC FTAAGGGTAA GAAAATTATA AAGTATGTGT GTTTNTGTGA ATATGAATTT GTACCTATAT FCAGAAGAAA AGAGCAATAT TGGCACAAAA CAAATCATCT TAATAAGGTA ACTAATTGGN FGNGTGCAGT GGCTCACGCC TGTAATCGCA TCACACTCGA G  (2) INFORMATION FOR SEQ ID NO:1203:	60 120 180 240 281
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 328 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:1203:  BAATTCGGCC TTCATGGCCT AGTGATCTAC TTAGGTAGCT CCTGGAAAGC AAAGGAGAGA BAGCAAGACC TGTACAGACT TTGTTTATGA GGAAAGCTAT ATAAGGATTA TAAGAACTGA BAATATTTC TTTGTTTCCT TTTTGACAAA ATGGATTTTC TTCAGTTTCT TAAGCAGATG	60 120 180

TATTATTTCT GGGACGTTTT AGCCATGTAG TTTCTTTTTA TTCCTCTTTG ATACCCTGAA TAACTAGCCT TAGAAACACA AGTAAAGCTC CCAAAATTTC ATTTTCTACA TATTTTATTA CCAGATTGAA TTCTAGACCT GCCTCGAG	240 300 328
(2) INFORMATION FOR SEQ ID NO:1204:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 307 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:	
GAATTCGGCC TTCATGGCNT AGGTCCTAAA AAGAGTAAAA GGTGAAAACA CTAAGTGATA TTCNAAACAA AAGAAAAAGA TGAAAAATAA GAACCTTGGT TAAAGAGCAG TCGAAATAAG TAATGATTAT AGCTATGATT TATATAGCAC TTNTTACAAG AAGCCAGGCG CTGTTTTAAA CACTTGACAT ACTTATTTGC TCATTTCATA ATTGTAACAA CCCTATCAGA TAGGTACTAT TTTTATCCCA CTTTACAGAG GAGAAACTGA GGCACAGAAT TTTAAGTGAT TTGGCCGGGT GCTCGAG	120 180 240 300 307
(2) INFORMATION FOR SEQ ID NO:1205:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 425 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:	
GAATTCGGCC TTCATGGCCT AAAAAAAAAT GTAGTCTAGA AAGAGACTAG GAATAGAACA CTGCTGACTT GTTCTTATAC CAAGAGCTGG AGGCATAAAC AGTTTTAATA AAAAAGAATA CTTTGTATCT TTTGATGTAA CTTCCCTTTA GAGATTCTGT TTCCCCTGTC TTAAAATGTC AGGCTATTC TGATTGCTGT TTAAATAATT GGTAGTTACT ATTTGAGTCA NGCTTCTTAA AAAAAAAAAA ATTAAAAAAT TCGCCAGCTC AGCTTTCATT TAATTAGTAT CAAAGAAATG ATATCTGTGG CAGTGAACAT TAGTAGCTTG TTCCAGGGTT TATTGTAGGT TTGTTCAAGT CAGTACTGCC CATCTTGGCA CTTAGGTTCT TGGAATACAG AGGTGGATAA GGTTTGCCCC TCGAG	60 120 180 240 300 360 420 425
(2) INFORMATION FOR SEQ ID NO:1206:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 504 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:	
GAATTCGGCC TTCATGGCCT AAGACCAGCA CCATCGTGAG CAAGATTCCT GCTGCGCTGC	60 120 180
492	

GGTAGGTTGT GGATGTCTTT CTCTAGAGGG GTCCCACACC TGGAAAAGAG GACACC CCGNGGGATG AGGGAAGCTG GGCAAGGGAG AAAGTTGTTG AGTCACACTG GGGACC ATGTAGTGAG CTCAGCAAGA AAAGCCAGGT CCAGAGAGAG TCGCACAGAA TTCCTC ACAGCGCCCC TCGGTCCACA GTGGAGAGGA GGAGGAGGAG GAGCAGAAGG AGGGG GCTGCAGGAG GAGGAGGAT TGAAAGCGCT TTGGCCTTGT GTTATGTTTT GCTTCCTC TGTGCCCCCC TCTAGGCCAT GAAG	CCCAG 300 GACTC 360 GAGGA 420
(2) INFORMATION FOR SEQ ID NO:1207:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 242 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:	
GAAATTTTC AGTAACTCAG TGTCTTTAAC TAATAATTTA ATCATTCTAG TAAGAATGCTTTGTAT GATTTTAGTC TTTACATTTA TTAATTTATG TAAATTAATA TGTGGCATGATCACCC ACGACATTGT CCTAACTTGT CGACTGTTCT GTGTGCTCTT TTAAAACTAGTCTGTTG GCCGGGTGCG GTGGCTTACG CCTATAATCC CAGCACTTCG GACAGCACGACGACGACGACGACGACGACGACGACGACGA	GAAGG 180
(2) INFORMATION FOR SEQ ID NO:1208:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 152 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:	
GTAGAATTGT ACAGTGCTTA TGAGTTATGC ATGTGTTCCT GGTCTTTGTT CTAGGATTTTTTTTTT	
(2) INFORMATION FOR SEQ ID NO:1209:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 317 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:	
GAATTCGGCC TTCATGGCCT ACTACCCCTT TATCATTCAC TAACGTGAAT GTGGTC TTTTTCCAGT CCATATCTTT GAACTTTTTG TAATATATGC ACATCAATAA GCAATC TTTATCTATT CTAATTGTTT TAATGTACAA CTTTATGGGT ACATGTGCAA TTTTGT TGCATGGTGG CCAAATCAGG GCTTTTAGAA CATCCAACAT GCGAATAATG TACATT CCATTAACTA ATTTCTCAAT ACTTCTGAGT CTTCCTTGTC TATGATTCCA CTCTCT CACATGTACA CCTCGAG	CGAGT 120 TTTCT 180 TGTAC 240

- (2) INFORMATION FOR SEQ ID NO:1210:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 282 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

GACAGATTTC	ATTACCTTGA	AGTTCACTGC	ACTGAACAAT	TCTCACTCTG	GATGTATTCC	60
TGCTCTAGGA	TGTGAATTTA	GACTTTTGTA	ATAGAGTGGG	CTTTGAGAAA	TAGCTTTTCT	120
GCTCATTTTA	GTTTCATGAT	GACTGCATGG	AATGTTTTGC	TTCACGCTTA	TGCATTGAGT	180
TTTATCAAGC	ATTAAGCAGT	TGGCCGAAAC	AGGTAATACT	TGAACATTCA	GTCCAAGAAA	240
AACAAAATGG	ATTTGAACAT	ACGTAGAATC	AGTAAACTCG	AG		282

- (2) INFORMATION FOR SEQ ID NO:1211:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 482 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCGGCC	TTCATGGCCT	AGTCAAACCC	TAGAGCAATG	CAGGCCTTGT	TACAGATTCA	60
GCAGGGTTTA	CAGACATTAG	CAACGGAAGC	CCCGGGCCTC	ATCCCAGGGT	TTACTCCTGG	120
CTTGGGGGCA	TTAGGAAGCA	CTGGAGGCTC	TTCGGGAACT	AATGGATCTA	ACGCCACACC	180
TAGTGAAAAC	ACAAGTCCCA	CAGCAGGAAC	CACTGAACCT	GGACATCAGC	AGTTTATTCA	240
GCAGATGCTT	CAGGCTCTTG	CTGGAGTAAA	TCCTCAGCTA	CAGAATCCAG	AAGTCAGATT	300
TCAGCAACAA	CTGGAACAAC	TCAGTGCAAT	GGGATTTTTG	AACCGTGAAG	CAAACTTGCA	360
AGCTCTAATA	GCAACAGGAG	GTGATATCAA	TGCAGCTATT	GAAAGGTTAC	TGGGCTCCCA	420
GCCATCATAG	CAGCATTTCT	GTATCTTGAA	AAAATGTAAT	TTATTTTTGA	TAACGGCTCG	480
AG						482

- (2) INFORMATION FOR SEQ ID NO:1212:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 343 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNÂ
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCGGCC	TTCATGGCCT	AGGGTGATAT	TTAACTCGTT	GCCAATGGCT	AAGCTCCAGA	60
CTTTGCCTCT	CACACTTGGA	GGGATTCCCT	GCCACCATAA	ATCTCGAACT	TTTCTAGAGC	120
ACCACATTGT	TTCCCAGTTA	GGTAAGATCT	CATTATTCCA	GGTGAGCACA	GCGTTTCCAA	180
TGCTTTCCTC	GACTCTGCAT	CTTTCTTCCA	GCTGCTTCTT	CCTTCGCTGG	GCTTCTTTCA	240
GCTCTCGCTT	TTTGGCCTGA	ACCACCATTT	CTTCATACTG	CTGTCTGTGC	TTCTGAGCTT	300
CTTCAGCTGG	TTTTGCTGGG	AGATTTGCTG	GTCTGTCCTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:1213:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 285 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

GATCCCAAAG TGCTGGGATT GCAGGCGTGA GCCACCGCGC CTGG	CTGAAA GAGCTTTTTT 120
AATGTATTAT TTATTTGTGT CAGGATAGAC TCATTGATGC GTGT	TTTATT CAGTGGGTTA 180
TAATTCTTTA TTATGTATTC TGATGTTGGT GTTTTCCCAG TTTT	AGCCAA TGGCATCCCC 240
TTCCATCTGG ATCCTGTGTT CTTTTGACAT GGCTCCAATC TCGAG	G 285

- (2) INFORMATION FOR SEQ ID NO:1214:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGCC	TTCATGGCCT	AGAACCAGGC	CTTCCAGTAC	GAGTTTGGAG	CCATGTATGC	60
ATGGATGCTG	TGTGTCTTCA	CTGTCATCGT	GGCCTACAGC	ATCACTTGTC	CCATCATCGC	120
GCCATTTGGC	CTCATCTACA	TCCTGCTCAA	GCACATGGTG	GACCGGCACA	ACCTCTACTT	180
CGTCTACCTC	CCAGCCAAGC	TGGAGAAGGG	GATCCACTTT	GCCGCTGTGA	ACCAGGCCTT	240
GGCAGCCCCC	ATCCTGTGCC	TCTTCTGGCT	CTACTTCTTT	TCCTTCCTGC	GCCTGGGTAT	300
GAAGGCCCCC	GTCACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:1215:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 446 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GAATTCGGCC	TTCATTTTGA	AAGATATTTT	TGTAAAAATC	TGTTTGTTTT	CTTTTAATAC	60
TTTCCAGTGT	TATCTGGGTT	TCTTAATTTC	TGACTTAAGG	TCTGTAATAA	TTTCTGCTTT	120
CATTCCTCTT	AATATATTGT	GTCTTTCTTT	GTCTACATTT	AAGATTTTAT	CTTTATCACG	180
TGTTTTGAAA	AGTTTTATTT	TGATGTGCTC	TTTATGTTTT	TCTTTATTTG	TAGTGCTTGG	240
ACCTTGTGGT	GCTTTTCTTA	TTTATAATTT	TCATCAAATT	TGGGGGGTTT	GACCATTATT	300
GCTTCAAAAA	TAATCTCTGT	TCTCTTTCTT	CACTTTCTCC	AGTTACATAC	TGTAGAGTAA	360
ATGATAGCTA	CCGAAGACAG	AGTGATCCGT	GATAAATATC	ATTAATGCCT	CTGAAGAGGA	420
GAATGACTCC	AGTGGAACCA	CTCGAG				446

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:	
GGACTTTTTG GAGAAGCAGT ACTATTCATT AATTAAGTAT AGAGTGTCTT GTTAATCCTA AAAGAAAGAG AGCCTTAATG AGGATCATGA ATTTTTTTTT TTTTTTTTTT	60 120 180 240 263
(2) INFORMATION FOR SEQ ID NO:1217:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:	
GAATTCGGCC TTCATGGCCT AAACAACAAC AATAACAACA ACAAAAACAT GTATAACTGG GAAAAAACTG AAAGAAATG CAGGATCATA AAAATATAGC AAACAAAGTG AGTGGGATTT AAAATTAGTG GAATAAGAAA TAATGGGTAA CAATGAAGAA CATAATTTAG GTAAATATAGTAT AGTATCTTGG GAGCCCTCCT GGAAGTATCT AGTTATGGAC AGTGAGCAGC AGAACAGGA TGTAACTCAA TTCAGCATAC TTGATGGTTG TGGTAACCCT AGAAAATGAC TCCAGGAAAT AGGTGAGAAT CCAATCTATC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:1218:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 293 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:	
GAATTCGGCC TTCATGGCCT ACAGAGATAG GGTCCCATCC AGGTTCCTAA CTGGGTGGCA CATGCATGGG CTAGATCCAA ATAGCATTGC AAAGGCCTGG AAAACAGAAC TAGAATTGAA ACCACCGCGG AAGACTCATT CGAACTCGTG GGCTGAACTC AACCAGGTCA ATGCTTCAGA AAAATACCAG CATTCTCCAC AGGACATAAA CAAGATTGTC TCATAACATA CCATTCAAAA TATTAGGATA CAATCCAAAA TTGCTCATCA TAAGAAGACA GGAAAAACTC GAG	60 120 180 240 293
(2) INFORMATION FOR SEQ ID NO:1219:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 265 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

GAATTCGGCC TTCATGGC					60
TGATGATAAC TGAAGTCT	NT TGTGGGTCCG	ACCTGTTGTA	GGGTGTGGGG	GAAAGTGAAG	120
GAAGAGAATG AAGGTGAG	TC CCCGCCGTTG	CAAACCTTCA	CCAAACCACG	CGGCCCAGTT	180
TTCGTGAGTA CCCCTGTG	TC CCAGAGAGGA	GGACCCAGCG	TCCTCGGCTC	TGCCGCAGGC	240
CTTCTTGGTC TGGTGGGT	AC TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1220:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

	CATGGCCT AAGGAATTG				60
TTCTGGAGTG GT	CCTCTGTG AAGGGGTCA	A ATGGTTGTCA	TTTCATAGCG	GTTACGACTT	120
	CAAAATCC TAACCAACT				180
TGAGATCCTT CGA	ATTGTTTT TTCCTGTCA	T TTATGATGTG	AAGTACCTCA	TGAAGAGCTG	240
CAAAAATCTC AAA	AGGGGGAT CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:1221:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 312 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

GAATTCGGCC	TTCATGGCCT	AGCTCATTCT	GCTGGGGGTA	GAGATGAGGG	GAGGGAGTAA	60
GTTAAACCTT	GGACTAGCAA	GTAGAAGCCT	GGGGGGATGC	GTGTGCCTCA	GTTTCCTCCT	120
		TGAAAACTGG				180
TCTCTCCCTT	CCCACCTCCT	GCAGGAAGCA	GGACGGGGCA	GGCAGCACCT	GGTAGGCACA	240
GTGCTTTGCC	CCTCCTCCCC	TTCCCTTCTG	GAAGTCTTGG	GGCCTCAGTG	CTTGCAACAG	300
CCACTCCTCG	AG			•		312

- (2) INFORMATION FOR SEQ ID NO:1222:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 512 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

GCGATTGAAT	TCTAGACCTG	CTGGCCTCAA	GTGAACCTCC	CGCCTCGGCC	TCCCAACGTG	60
					TTGTGAAAAT	120
			ACTAACCTGA			180
CTCCTCTCTA	CTCCAAATAC	TGGCCCATCC	CTGCTTAAAT	ACTGCTCAAT	GAAGTTACTC	240
ATGCTAGTTC	TTGAGGGAGT	AACTCTAGAA	TGATTCCATC	TAGGAAGACA	TAAGATAAAA	300
TGGTAAGTAT	TCTAAGTTCT	ATAGGTAGTT	TAGTCATGCC	ATATTATAA	CCTCCACTCC	360
AAAAATAGTG	TGAGGTCATT	TCTGGCCAGA	GTGAAATAAA	AAATGTATAA	TGCCTGAACA	420
GTCTATTATT	CTGACAATGA	AAAAGATTAA	TGCAGTTCCC	TTTATCACTT	GCATGAGTAA	480
TATATAAAA	ATATATATTG	GCTGGGCTCG	AG			512

- (2) INFORMATION FOR SEQ ID NO:1223:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 447 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

GGGTGTTTCA	TACAAAGAAT	ACAAGTAACT	GATGAATGAA	GGGGGCATCT	TGTGTCCCCA	60
CAATCCTGCT	GTGCGCACAC	CACAGGTGAG	CCGTTCTGCC	TAAGGGAACA	GCCCCGGCCC	120
CTCCCTCCGG	CTCCTCCCCA	GCACCGTCTC	CTCCACCCAG	TGGCCTGGCC	GTGGATGCTG	180
CCTGTGGCCC	AGCTTTGAGA	CACCGCCCTG	ACACGTGTCC	AGCCTTACGT	GGAAGGATTT	240
GTCTGTTTTG	TGGCATCCTA	GTAGATGCCA	CGTTAGTAGA	TGCCATGTTA	GTAGAAGGGA	300
TGTGGGCATT	TCTTTGTAAG	TTCCCAAAAG	CCTATGAGGG	TTTTTTCCAC	GATTCCGTTC	360
CCAGTTTGGC	TTTTGTTGTT	GTTGTGGCTG	TTCTTGGCCC	CCCTGGGCCC	TGCAGTGGAG	420
TGGGGGGCTG	CACCTGGGAG	CCTCGAG				447

- (2) INFORMATION FOR SEQ ID NO:1224:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 235 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

GAATTCGGCC	TTCATGGCCT	ACTTTGTTTT	ATATAATAAA	GTATGCCTGT	TATATTAAAT	60
AATAAGAATA	TGGCAATTAG	CGATATAGCA	TACCCAAACA	AAGATGTTCT	CGATACAGTC	120
TGGCAAAGAC	TATCCCAAGG	TTATTTTAAT	GAATTCAGAC	ATTTTTCCT	GTGGATATTT	180
CTCCATCCTA	AAAAAAGTGG	CAACCAAGGA	ΔΔΑΤΑΤΤΤΑ	ATGCAAATAC	TCGAG	235

- (2) INFORMATION FOR SEQ ID NO:1225:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 134 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GCGATTGAAT TCTAGACCTG CCTCGAGACT GACGCCGCAC CATGACCCTC CTGCTGCTGC
CCCTTCTGCT GGCCTCTCTG CTCGCGTCCT GCTCCTGTAA CAAAGCCAAC AAGCACAAGC
120
CACCGCATCT CGAG
134

- (2) INFORMATION FOR SEQ ID NO:1226:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 556 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

GAATTCGGCC	TTCATGGCCT	ACACACATCT	GGTAAGCAGA	AGCACGGAAG	GCCTTTGTTT	60
	TTTAAATGAT					120
TCTCTCTTAT	GGTTTGAATG	TGTCTCCAAC	ACTTTATGTG	TTGAGACTTC	ATCCCCAGTG	180
	GGGAAGTGGA					240
	AAAGCTGATA					300
TAAAAAGAAT	GAGTTTGGCC	AGATTGTCTC	TGTCTGTCTC	ATCTGCCTGC	TTCCACCTTC	360
	CCTGGAATGA					420
	TTCTGTTTTT					480
AAATGGACAG	AGACACCCTC	AAATTAAAGG	ACAGTCTTGC	TGACTATGAA	TTAGAAAATA	540
TCTGGGTTAG	CTCGAG			•		556

- (2) INFORMATION FOR SEQ ID NO:1227:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 175 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCGGCC	TTCATGGCCT	ACCTGCCTCG	AAATACTACC	GTATGGCCCA	CCATAATTAC	60
CCCCATACTC	CTTACACTAT	TCCTCATCAC	CCAACTAAAA	ATATTAAACA	CAAACTACCA	120
CCTACTTCCC	TCACCAAAGC	CCATAAAAAT	AAAAAATTAT	AACAAACCAC	TCGAG	175

- (2) INFORMATION FOR SEQ ID NO:1228:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 220 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC TTCATGGCCT ACTGTTTCCT TGCCCTTTTC ACCGTCTGGT GGTTCCCTGC

TGTCATCACA	TTGTGGCCCT CTCATCCATC TTCCGAGCCT AGCACTCCAG TCTCTGCTT TCGCCTTCTC TTGAGAAAGA TCCCAGGCTG GTATTTAAAT TGCCTGTTC GCCTGTCTTC CCCTACCCCC ACAGCTCGAG	CC 120 GG 180 220
(2) INFORMA	ATION FOR SEQ ID NO:1229:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 526 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1229:	
TTAATTATTC CAAGCACTTG AGGCTTCGCC GTCGAAGTCC ACCAACTCCA GGGTGGAGCA CCCTCTGCCC	TTCATGGCCT AAGTCTCTTG ACATCTCAAT TTACCCCAGA ACATCTCTA CCTGAGGAGG GGAAGTTGGG TATGGCGGTT GGAGGTGGAC AGGCTCCTA CCAGCAGGGG GCACTCCCAG TTTTCGCTCC GCTGAGTCAC CCAACCCCT ACTTTCTAAT GTTTGCTGTG GCTACAATGG TCAGACCCAC AGGCAAAAA CTGGAGTCCC TGACCCCTCT TCCTCTCTAT AACGATTGGA AACTGTCCA GTAGTTCTGG GCTGATGAAT CATCCTCTTG TGGGGCGGAG AGTGGGGGT ATGTGGGCTA GGACCCAGGG CAGGATCAAA ATCTCTGAAG ATGCAGAGC TGGGAAGAAG GAAGCAGGAT TTATTATAAC ATTTAGCTCA CTGTCCAAT AGCTCTCCCA GGGCTCGGGC CAACTGTCGA CTCGAG	A 120 G 180 A 240 A 300 A 360 T 420
(2) INFORMA	ATION FOR SEQ ID NO:1230:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 312 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1230:	
TCAGGCCTCG AGCATGATTC CATAACTGGA	TTCATGGCCT ACCATTGGC TATGACCTGA GGAGAATCAA GGTAGCTTT TGGACATCGT GGATATAAGG AATGCTCTCG TAGGAGGGTA CAAGAACCC CAATAGAGAA GGCCCAGGGG CCCATCCTGC TCATNGTTGG TCAGGATGA GAAGTGAGTT GTATGCCCAA ACAGTCTCTG AACGGTTACA GGCCCATGG CCCAGATCAT CTGTTACCCT GGGACTGGGC ATTACATCGA GCCTCCTTA AG	C 120 C 180 A 240
(2) INFORMA	ATION FOR SEQ ID NO:1231:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 297 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1231:	
	TTCATGGCCT AGCTTTATCC ACTCTGGAAT CCTGGAGGAG CCGCTACAA	

ACAGATCTTG TAAACCAACA ACAAACCCTG GAGGAGAAGA TGCGGGAAGA CCGGGATAGC CTGGTGGAGA GACTACACCG TCAGACTGCT GAGTATTCCG CATTCAAGCT GGAGAATGAG AGGCTGAAGG CCAGCTTTGC TCCAATGGAG GACAAACTCA ACCAGGCACA CCTCGAG	180 240 297
(2) INFORMATION FOR SEQ ID NO:1232;	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 360 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:	
ACGAGCACT TCATGGCCT ACGCAGCTCT ACCTGCTCCA GGGGCACCTG GACCTGTGTG AGCAGCACTG TGCCATCCTC CTGCAGACTG AGCAGAACCA TGAGACCGCT TCTGTGAAGT GGAAAACTTG AAGACATTCC TGCCTTCTTT GAATTGGCCA AGAAGGTGTC TAGCCGGGTG CCTTTTGGAAC CAGGGTTCAA TTACTGCAGA GGTATCTACT GCTGGCACAT AGGGCAGCCC AACGAAGCCT TAAAGTTCCT GAACAAGGCA CGCAAGGACA GCACTTGGGG CCAGAGCGCC ATCTACCACA TGGTGCAGAT CTGTCTGAAT CCAGACAACG AGGTTATGGT GCGGCTCGAG	60 120 180 240 300 360
(2) INFORMATION FOR SEQ ID NO:1233:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 423 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:	
FARTTCGGCC TTCATGGCCT AGAAGGACTG AAATGATGTT ATACTAAGGG CTACTGAACT FTTTGCCTGT TCTTTCCAGG TGTGACAGCC TTCTTTTCT TTTCCAGGTG GTTCGCTTTG AGGTGGTCTG AAGCCAAGGC CTCGCGGAGC TTCTTTGTGT GTCACCTTTC CAGTTCTTGT TTTGTTCTA CTGCTTTAGT TTTTTTTAAA GTTCTCCAGT GTCCCCAAGA GGTATTAGAA TCTTGCTGTA CCCAAGCAAG ACGTTAATTT TTCTTTTAAC TGTTTTGGGG AGGGAGGGAG TGATAGCTTA ACTGCTGAAG CCAGGCGGGG GTCTGCTGGA GGATTCCAAC AGAGAGTATT TCCTCCACTG TACAATGTCA CAGACTATCT CTATCATCAT TGCTTTGTGG CAT	60 120 180 240 300 360 420 423
(2) INFORMATION FOR SEQ ID NO:1234:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 475 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

60

120

180

GAATTCGGCC TTCATGGCCT AGCATGTAAA ACTTCAGTCC TGAACATTTA TAGGGTTTTA

TAGAAGGGCA TCCTCCAGGG CTGGTCCATT CAGAGAAATG CTGCATGCTG CCGTCATGGA

ATGTGGCCCA CAGGACACCA GAGCCGTGAG AACCGGAGAG CAGACTTCCC TCACGGCTGG

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

CACAAGCACG ATATAAGGCC	CCCTCCAAAG CCCTCCTCAC GCAGTTACTA ACAATAGCAT GGGC TGTTCTCACC TTTTTCCTAT GCCCTGGACT AAGGTTTGGC CAGT ATCCTGACAT TGTTTCTGTG TTTCAAAATT TGGATTTTA TTTA	GTAATC 300 CATTAG 360
AACTACATTG TTCAGCATAT	CTCCTAGTAG AACATTACCT TTAGGGGACT AATTTTCCAT GGAG. TGCATGCTGC TCAGACCCCA AGTCAGATAT GCCCACAAGC TCGA	AACTAT 420 G 475
(2) INFORM	NATION FOR SEQ ID NO:1235:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 301 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	) MOLECULE TYPE: cDNA	
(xi)	) SEQUENCE DESCRIPTION: SEQ ID NO:1235:	
ATGTTTTTGT CTGCTTCTAT CATTGAATAT	TAGTAGCACT ACCTTCCAAG TGAGTCACAA CAAATTTGAT CCTACCCACTGTTAT GATTNATCAT GTATCTTACA AGAGCCACTC AAGCCCGTATGGTGAG GCCTNGTTGT TCTAGGCTAG AATAAACTCT TTGTAGCCAGGTAAA ATTTATGCAG TCAAGAATGA ATTATTTTTC TGACCAGTTCAAAAAT TGTGCCCTTG TTTTAACAGT TTCTGTCNAC ACCTACAGAATGA ATTATTTTC ACCTACAGAATGA ATTATTTTC TGACCAGGTTCAAAAAT TGTGCCCTTG TTTTAACAGT TTCTGTCNAC ACCTACAGAATGA ACCTACAGAAATGA ACCTACAGAATGA ACCTACAGAATGA ACCTACAGAATGA ACCTACAGAATGA ACCTACAGAATGA ACCTACAGAATGA ACCTACAGAATGA ACCTACAGAATGA ACCTACAGAATGA ACCACAGAATGA ACCACAGAATGAATAAAAACACACACAGAATGA ACCACAGAATGAAATAAAAAAAAAA	AAGACT 120 ATGCCT 180 FAAAGT 240
(2) INFORMA	ATION FOR SEQ ID NO:1236:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 346 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1236:	
GTATTTTAAT GCTCTATGTG AGTCTCCATG TACTATCTCT	TTCATGGCCT AAGAGAAGAT AACATTTACA AGTAAACAGT AAGTC TTCTTGGTCT CCGAAAACTC AGCTGTGACT GCTTTCCATT AACAC TTTCCTCTAA CGCTAAAGGC ACAGCCCCCG GGAATCTACT GCTTC GAGTCTATTT TACAACCTC TTTCCCTCCA TGCTTCCGCG GAGGA ATATACACAT TTTAAACATT ATTCTTCATT TGAAATTCCT TCAAT ATTCTTCATC TTCTTGGGAA ATGGCCTGCT CTCGAG	ETTCCA 120 CCTAAG 180 AGTCTA 240
(2) INFORMA	ATION FOR SEQ ID NO:1237:	
(i) .	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 355 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	) MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1237:	
CAAGCGATTC	TTCATGGCCT ACTCACTATG TTGCTCAGGC GGATGTGGAA CTCCTTCCTTGCCTTG	TGGGCT 60

ATGAGCCCCT	CACAATTGGA	CACAGTTTTG	CAAAGGGGTA	AAAGGACAAG	AATCGGTAGC	240
TGTGACTGTG	GATGAGCCTC	TGAGCTTCAC	TTTCCCTCCC	TGAAAGGGGG	TGACAGTGGC	300
ACCTCCCTGG	AGGTTTTCGT	GGAGGGGAGG	AAACACATGT	AAAATACTTC	ACCCC	355

- (2) INFORMATION FOR SEQ ID NO:1238:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 560 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

GAATTCGGCC	AAAGAGGCCT	ACTAGACCTG	ATCACCACGT	TCAAAAGTTG	GCTTTCTCCA	60
TTTTAAGTTC	TTCCTTAAAG	CCTCTTTAAG	CAAAGTCCCT	GAAATGATAC	AGTAGAAAA	120
		TGAATTCTAT				180
		AAGTGCTTTG				240
		GACATTCTTT				300
		TAACAGATTC				360
		CCATTTACCG				420
		AGTTCACTCT				480
CTCTGATAGA	GCACCTGTTT	TGCTACTGAC	AGTGTTAAGT	TCCATACTAA	TCAGCTCATC	540
TAGCCTAACG	ACAACTCGAG					560

- (2) INFORMATION FOR SEQ ID NO:1239:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 569 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGNC	AAAGAGGCCT	AAGGAGAANG	AGGCTCAGAA	GGAGACGATT	AAGGATCTTC	60
CCAAGATGAA	CCAGGAGCAG	TTCATTGAGC	TGTGCAAGAC	GCTTTACAAC	ATGTTCAGTG	120
ANGACCCCAT	GGAGCAGGAC	CTGTACCACG	CCATCGCCAC	CGTGGCCAGC	CTCCTGCTCC	180
GCATCGGAGA	GGTGGGGAAG	AAGTTCTCAG	CCCGCACAGG	CAGGAAGCCC	AGGGACTGTG	240
CCACTGAGGA	${\tt GGACGAGCCA}$	CCAGCACCCG	AACTGCATCA	GGACGCAGCC	AGGGAGCTTC	300
AGCCCCCAGC	TGCAGGAGAC	CCCCAAGCCA	AAGCAGGCGG	AGACACACAC	CTCGGAACAG	360
CCCCACAGGA	GAGCCAGGTG	GTGGTGGAGG	GGGGCAGCGG	CGAGGGACAG	GGCTCACCCT	420
CCCAGCTGCT	GTCTGACGAT	GAAACCAAAG	ACGACATGTC	CATGTCCTCC	TACTCGGTGG	480
TCAGCACGGG	CTCCCTGCAA	TGTGAAGACC	TTGCAGACGA	CACGGTGCTG	GTGGGCGGG	540
AGGCCTGCAG	CCCCACAGCG	CGACTCGAG				569

- (2) INFORMATION FOR SEQ ID NO:1240:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 405 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GAATTCGGCC	AAAGAGGCCT	AGAGACCAGC	CTGGCCAATA	CGGTGAAACC	CTGTCGCTAC	60
TAAAAATACA	AAAATTAGCC	AGGCATGGTG	GCTCACACCT	GCAGTCCTAG	CTACTTGGGA	120
GGGTGAGGCA	GGAGAATCAC	TGAAGCTTGG	GAGGCAGAGG	TTGCAGTGAG	CCAAGATTCC	180
ACCGCTTCCC	TCCAGCCTGG	ATGACAGAGT	GAGACTCCGT	CTCAAAAAA	САААААААА	240
GTTACTTCAA	TAATGTACTT	TTTTTTTCA	AATTACAGAT	AATCTATAAG	GAATTAATCT	300
TGAAATTAAT	TCCAGGTTTA	ATTGTTAATG	AAATTTCACA	AGCCTAATTT	AACACTTGTC	360
TGGATAACTC	ATTTTGATAC	TGAGTAAATA	GTCACCGGTC	TCGAG		405

- (2) INFORMATION FOR SEQ ID NO:1241:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 542 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCGGCC	AAAGAGGCCT	AGGGCTTTTG	TGAATAAATT	TTAAAAGAGA	CTACTGCCTG	60
TCCTTAAATT	CCTTTTTCTT	TTTATAAAAA	AAGAACTATT	AAAAATGATT	GACAAATTTT	120
GAGTTAAAAA	ATTGTTAAAA	CATTCTCTAT	ATTTAATTTC	AATTTTATAA	TAGATTACAG	180
GAAGATGCTT	ATGAAACAAA	TACATTTGTT	TCAGTACATG	TCTTTAAATG	ATAGACTTAT	240
AAGTATGTAA	ACAACTATAT	AATAAAAGGT	TTCCAAACGC	TGCCTGTAAG	AAATCAGGCA	300
AATTTTACCA	TAAGCAATAA	ACCATTCCAA	GCCTTCCAGA	CAGTCTCCAT	AGCCGCACCA	360
GCATGGCAAT	AAGCTTTAAC	CAAACGAAAA	CAAACAAACA	AAAGCACTTC	GCAATTTGTT	420
GCTGCAAAAC	AGGGAGAGAA	AAGAGTGTAC	AAACTTGATG	GAATCACAAC	AGTCAATATA	480
ATTTAAGGGA	CAATAAAGTC	AATAAGGTTG	ATGGTGTTTA	TTGTTTAAAA	AGTTAGGCCT	540
CT						542

- (2) INFORMATION FOR SEQ ID NO:1242:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 370 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCGGCC AAAGAGG	CCT ACTGATACAA	TTGTTGACTT	TTCTTTTACT	ATGTGTAAGA	60
AATACCCCAA ACATGAA	AAG ATTGTTTTGA	TCATATGCAT	GTATGTAGAA	TATTTTTGCA	120
GAGCAGAAAG ATTATGT	TAG AAGTGTGATT	TTTATTTTCA	GAAGTCATAT	ACATGTAAGC	180
TACAATTTTG AGTGCTT	TAT AAACACTTAA	GATATATATA	TAAATTTTAA	TTTCATAGCA	240
ACTTGTAAAA AATAAAA	TAC TTGTTGAAAA	GCCTTTTTCA	ACATATCCCT	AAGCTAAGGG	300
AAGAGGAAGG AATAACA	ACT CAGTGAAAAG	ATGGTCTCCA	GTTTCTGAAT	GAAAAAGCTA	360
CAACCTCGAG					370

- (2) INFORMATION FOR SEQ ID NO:1243:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 374 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

GAATTCGGCC AAAGAGGCCT	AGCCTCATCA	CGGGCAGGGC	TCTGGCCCAT	AGTGGCTGGA	60
CAGACACTGG CACAGTCTTG	CTGGTCTGCT	GGGAGCACAC	AGACATTGGC	ACAGACTTGC	120
TGGTCTCTTG GAAGAGGGCA	AGACCCCAAA	CCAGAGCAAA	ATACACTTCC	AGCTCTTAAC	180
CAGGCTCCTT CCAGTCACAA	GTGTGCAGAA	TCAGAACAGA	AGTAGTACCA	ATCAATGTCA	240
CATGAACAAA CAAGCTGCCC	CCAGGGTACC	ATTTGGGGAG	GGGAAATCTT	TTCTTTCTTT	300
CCCCCTTAAA AAAAAACACA	TCTGCCCCGA	ACACTTTCCC	ACTGTTATTC	TTTCCTCATA	360
CCCCAACGCT CGAG					374

- (2) INFORMATION FOR SEQ ID NO:1244:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 468 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

GAATTCGGCC	AAAGAGGCCT	ACACACCAAA	CTGATTATCC	ACCAGACACT	CAGCGTCTTA	60
GAAGATATTG	TGGAGAATAT	CTCGGGGGAG	TCCACCAAGT	CTCGACAGAT	TTGCTACCAG	120
TCGCTGCAGG	AATCTGTTCA	GGTCTCCCTG	GCCCTCTTTC	CAGCTTTTAT	CCATCAGTCA	180
GATGTGACTG	ATGAGATGCT	GAGCTTCTTC	CTCACTCTGT	TTCGAGGCCT	TAGAGTACAG	240
ATGGGTGTGC	CTTTCACTGA	GCAAATCATA	CAGACTTTCC	TCAACATGTT	TACCAGAGAG	300
CAGTTAGCCG	AGAGCATCCT	CCACGAGGGC	AGCACAGGCT	GCCGGGTGGT	GGAGAAGTTT	360
CTGAAGATCC	TGCAGGTGGT	GGTCCAGGAG	CCAGGCCAGG	TGTTCAAGCC	CTTCCTCCCC	420
AGCATCATCG	CCCTGTGCAT	GGAGCAAGTG	TATCCCATTT	CGCTCGAG		468

- (2) INFORMATION FOR SEQ ID NO:1245:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

GAATTCGGCC	AAAGAGGCCT	AAGCTTATGG	GGAGGACACA	TATTTACTCA	AACATCCTGG	60
CAATTCATAT	CTAGGGCACT	CCCTCTGTGT	GTCAGACGCC	CTTGCATGTG	TCAAATGTCA	120
TCTGATAACA	TTGATGAAAA	ATATCATTCA	CTTCTTCTTG	GTGCAGAAGG	CATAGACCGG	180
ATTATGCAAT	CACTGAGAAG	TAGCTTCTGG	ATGTGTTTTC	TGGTGGCGTC	TTAACAATTT	240
CAGCCGACTG	AAGGCTCTTG	GACACTTGGA	ACATTTGTAG	GGTTTCTCTC	CGGAGTGGAT	300
GCGCTGGTGC	TCCTTCAGGC	TCCCCCTGTA	GGTGAAAACT	TTCTTGCAGT	CTTTACATTC	360
GAAGGGCTTC	TCCCCCTGTG	TGGCTTCTCT	TGTGACACTT	CAAGTAGGAC	TTCTGGGTGA	420
ACTGCTTAGG	CCTCTTTGGC	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1246:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

GAATTCGGCC	AAAGAGGCCT	AGTATTTTGT	ACTAGTTTTT	TAATAATTAT	AAGTCTTACA	60
CGTTCTCTAA	TTCTTCTTGA	ATCTGTTTAA	TTTTTCTCCC	TTGGGAATTG	TTAAGTGTAC	120
ATGTATTGTG	ATAACTGCTA	TAATTTTGCT	TTTATTGATT	TTTTTTGCTT	TATATCTGCT	180
ACAATTTGGT	TCCTCCAAAT	CCCATGTTGA	AATCTGATCC	CCAGTGTTGC	TGGGGGATCT	240
AATAGCAGGT	GTTTGGGTCA	TGGGAACAGG	TCCCTCATGA	ATGAATTAAT	GCCCTCACTG	300
GGAGGAGGGG	ATAAGTAAGC	TCTCACTCAT	TTAGTTCCCA	AGACAGCTGG	TTGTTTAAAA	360
GAGCCTAGTG	CCACTTCTCT	CTTGCTTCCT	TTCTTGCCGT	GTGATCTCTG	CACATGCCAG	420
CTCCCCTCGA	G		•			431

- (2) INFORMATION FOR SEQ ID NO:1247:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 389 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

GAATTCGGCC AAAGAGGCC	TTTTTTTTTT TC	TTTTTTTTT	TTTTTTTTT	TCNGGGTGTA	60
GAACATTTAT TTATTTTT	CC CACAAATCAC	TGAAAGTTTA	GGTCAGTGGG	AAATAATTTT	120
AATCAAATAA TTGTACATA	AT TCTTCCCACA	TATCCTGCCT	TGTATTAGGA	AATGACATTG	180
TGATCCATTT CATTACAA	T AAAATATTAC	AAAATATTTA	CAGGAAAATA	AATAAAAATT	240
CTCAAACACA AAAGGCAAG	GA TGAAATAAAC	TGTTTTTTT	TCTCCAGAAA	TCTCTACTCC	300
AGTGCCCACA GCACACAA	GA GTCAAAACAA	ATAAGCAACT	AAGATCCCCC	GATCACAAAT	360
TTCCAAAGAA CTAGGCCT	CT TTGGCCGAA				389

- (2) INFORMATION FOR SEQ ID NO:1248:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 380 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

GAATTCGGCC	AAAGAGGCCT	AAAGGAAGGC	CACTTCTCAA	CTGGCAGAAC	TTCTGAAGTT	60
TAGAATTGGA	ATTACTTCCT	TACTAGTGTC	TTTTGGCTTA	AATTTTGTCT	TTTGAAGTTG	120
AATGCTTAAT	CCCGGGAAAG	AGGAACAGGA	GTGCCAGACT	CCTGGTCTTT	CCAGTTTAGA	180
AAAGGCTCTG	TGCCAAGGAG	GGACCACAGG	AGCTGGGACC	TGCCTGCCCC	TGTCTTTTCC	240
CCTTGGTTTT	GTGTTACAAG	AGTTGTTGGA	GACAGTTTCA	GATGATTATT	TAATTTGTAA	300
ATATTGTACA	AATTTTAATA	GCTTAAATTG	TATATACAGC	CAAATAAAAA	CTTGCATTAA	360
CTTAGGCCTC	TTTGGCCGAA					380

(2) INFORMATION FOR SEQ ID NO:1249:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 386 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC AAAGAGG	CCT GTTTGGTTTG TGAC	TAGACT TAAAAATACT AA	AAATAAGCC 60
AAATAGATGC TAACAAT	ACT AATTTGCACA CAAGA	ATTTGA AAAAAGTACT TO	CAAGTTTTA 120
TCTCTTATCC CTAGAGA	AAG TAAATAAAAA GTGG	CTCTTG CAAAAATAAA TO	GAAAACAAA 180
ACCACCAACA AAAACTA	ATC ATATAAGATA CTGT	TTTTCT TTTTGAATAC TT	CAATTGGT 240
CCTATATTAG GATAAGG	STTT TGATAGCAAG GACT	TCCTAG CTTCTTCCTT TA	ATCTTCCAT 300
TCTCTAGTCA CTTCCGI	GTT TTTATCAAAC AAGG	CTACGT GTAGGCTTTC CT	TACAAAGTC 360
AGATTGAATT CTACCAC	CCT CTCGAG		386

- (2) INFORMATION FOR SEQ ID NO:1250:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 428 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

GAATTCGGCC	AAAGAGGCCT	AACCATGTCT	GACCAGATCA	TTGGGAGAAT	TGATGATATG	60
AGTAGTCGCA	TTGATGATCT	GGAAAAGAAT	ATCGCGGACC	TCATGACACA	GGCTGGGGTG	120
GAAGAACTGG	AAAGTGAAAA	CAAGATACCT	GCCACGCAAA	AGAGTTGAAG	GTTGCTAATA	180
ATTTATACTG	GAATCTGGCA	TTTTTCCAAG	CCAAGAGAAG	ATCGAATGGC	TTTTTGCAGC	240
TAACTACTAT	GTGTAGACAG	GTTTTATATT	ATAAAGTATG	CATTCTTATC	ACCTAGTATA	300
TAGTTAGTTT	GTAGAGTGAT	TTCCCCCCAG	TTTCTTGAAC	ATGGTATCTT	CACATCTTGG	360
ACCTTGGTCA	GTTGTGCTAT	TCATTATTAA	ACACTAAAAC	TTTGGCGGTT	TAGGCCTCTT	420
TGGCCGAA						428

- (2) INFORMATION FOR SEQ ID NO:1251:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 264 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC AAAGAGGCCT	' AAGAAAAGTA	GTATGAATGA	GTTTTTCTAC	ATATTAACTA	60
CAATTTATGG TAATTTGTGA	AATGTTTTTC	CATTTTTAAA	TGTAAGAGTC	TCTATCTCCA	120
CTCACAAAGC AACAGGCACT	GCTAGGGGTC	TTAGGCTAAC	ATCTGCCACC	CCACCAGTCT	180
GCATGGCCCA TAAACAGGTG	CAGAGGACCA	GAGTTCACCT	GTCAGCAGCA	CCGCAGAATC	240
CAACTCTAGG CCTCTTTGGC	CGAA				264

(2) INFORMATION FOR SEQ ID NO:1252:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 436 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGCC	AAAGAGGCCT	ACTTTTTTT	TAATTTTCCA	CTTTCTTCTT	AACTTTACTT	60
CTCTTTTTGT	CCCCCCCAT	CTTACAGAAG	TTGAGGCCAA	GGGAGAATGG	TAGGCACAGA	120
AGAAACATGG	CAAACTGCTC	TGTGCTTTCA	AACCAAAGTG	TTCCCCCCAA	CCCCAAATTT	180
GTCTAAGCAC	TGGCCAGTCT	GTTGTGGGCA	TTGTTTTCTA	CAACCAAATC	TGGGTTTTTT	240
TCTTCTTTCT	TTAAACATAG	AGGTACCACC	ACAAGGGATG	CCCTACTCTC	TCGCAGCTCT	300
TGAAAGCATC	TGTTTGAGGG	AAAGGTCTCT	GGGCAAGCAA	GTGGTTATTT	GGATTGCTTG	360
CTTCCCTTTT	TCCACCTGGG	ACATTGCAAT	CATAAAATAA	CAGTAAATTC	CAAACCTCTA	420
GGCCTCTTTG	GCCGAA					436

- (2) INFORMATION FOR SEQ ID NO:1253:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 399 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GAATTCGGCC	AAAGAGGCCT	AGGGTAGATC	ACTTGATATC	AGGAGTCGAG	GCGGGAAGAT	60
CACTTGACGT	${\tt CAGGAGTTCG}$	AGACTGGCCC	GGCCAACATG	GTGAAACCGC	ATCTCCACTA	120
AAAATACAAA	AATTAGCCTG	GTGTGGTGGT	GGGCACCTGT	AATCCCAGTG	ACTTGGGAGG	180
CTAAGGCAGG	AGAATTTCTT	GAACCCAGGA	GGCAGAGGTT	${\tt GCAGTGACCA}$	GCAAGGTTGC	.240
GCCATTGCAC	CCCAGCCTGG	GCGATAAGAG	TGAAAACTCC	ATCTCAAAAA	AAAAAAAA	. 300
AAATTCCTTT	GGGAAGGCCT	TCTACATAAA	AATCTTCAAC	ATGAGACTGG	AAAAAAGGGT	360
ATGGGATCAT	CACCGGACCT	TTGGCTTTTA	CAGCTCGAG			399

- (2) INFORMATION FOR SEQ ID NO:1254:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

GAATTCGGCC	AAAGAGGCCT	ACCCGGTACT	TACTTCTCAA	TCCTAAAGAG	AGAAAACAGG	60
TGTTTGATCA	GTATGTAAAG	ACCAGGGCAG	AGGAAGAACG	CAGGGAAAAG	AAAATAAAA	120
ATGCAAGCCA	AGGAAGATTT	CAAAAAAATG	ATGGAAGAAG	CAAAATTTAA	TCCAAGAGCA	180
ACTTTTAGTG	AATTTGCAGC	CAAGCATGCT	AAAGATTCAA	GATTCAAAGC	AATTGAAAAG	240
ATGAAAGACC	GAGAAGCCTT	GTTTAATGAG	TTTGTGGCCG	CTGCTAGGAA	GAAAGAGAAA	300
GAAGATTCGA	AGACCAGAGG	TGAGAAGGTA	AGATGGTTTT	AGTTCCAGTG	GTGTGATTGA	360
TGGGAGTGTG	AATGGGAAAG	GTCTATGCTG	GTGTTATGTT	TCTAACCTTA	TTCATTGGCA	420
TAAATAATAG	GACGTACACT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1255:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 284 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCGGCC TTC	atggcct aagaaggact	ACCCTGCACT	GCTTTCCTTG	GATGAGAATG	60
AACTCGAAGA GCAC	STTTGTG AAAGGACAC	GTCCAGGGGG	CCAGGCAACC	AACAAAACCA	120
GCAACTGCGT GGTC	GNTGAAG CACATCCCC	CAGGCATCGT	TGTAAAGTGC	CATCAGACAA	180
GATCAGTTGA TCAG	GAACAGA AAGCTAGCTO	GGAAAATCCT	ACAAGAGAAA	GTAGATGTTT	240
TCTACAATGG TGAA	AAACAGT CCTGTTCAC	AAGACAAACT	CGAG		284

- (2) INFORMATION FOR SEQ ID NO:1256:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 691 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCGGCC	TTCATGGCCT	AGTGGGAGTT	TGCTAATGTG	AAACCTAATG	ATGTCTGAAA	60
			GAAAAATTTT			120
			ATAGTCCTTC			180
			GAAGACATTT			240
			TAAGCCTTCT			300
			TTTCCTTTGA			360
			CTGGGGAGGA			420
						480
AAGGAACTAC	CTGCCTTTCA	CGGCTGCTGA	CTTCTCAGGG	CTGCAAGCAG	CACAGAATGT	540
TATCCTTACG	TCCTGAGCCG	GTTTAAGTCT	GTGGAAAAGG	AAGCACGGGA	GAAATCCACG	600
TAACCTTTGC	TTTCTTTTTA	AGGGAAGCGG	TTCCGCCGTG	AACTTGGAAC	CCTCAGCTCC	660
GGGTGTTCTC	GGCAGAAGGG	CAGCTCTCGA	G			691

- (2) INFORMATION FOR SEQ ID NO:1257:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 383 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCGGCC	TTCATGGCCT	AAGCTGATCC	ACGATCAGAG	TGCTCCCAGC	TGCCCCAGCA	60
GCTCCCCGTC	CCCAGGGGAG	GAGCCTGAGG	GGGAAGGGGA	GACAGATCCG	GAGAAGGTGC	120
ATCTCACCTG	GACCAAGGAC	AAGTCGGTGG	CAGAGAAGAA	TAAGGGCCCC	AGTCCTGTCT	180
CCTCTGAGGG	CATCAAGGAC	TTCTTCAGCA	TGAAGCCGGA	GTGGGAGAAC	TTGAACCAGT	240

AAAACTACAT GGAGTTTCTC GAG

CCAACGTGCG GCGCATGCAC ACGGCCGTGC GGCTGAACGA GGTCATCGTG AAGAAATCCC

GGGACGCCAA GCTTGTTTTG CTCAACATGC CTGGGCCTCC CCGCAACCGC AATGGTGATG

300

360

383

(D) THEODING	AMION FOR SEC ID NO. 1250.	
(2) INFORMA	ATION FOR SEQ ID NO:1258:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 418 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1258:	
CATTGCCTCC TTACAGCCTG GAATCTCCTT AACTCTTCCA TGATGACGAT	GGACTAACTA CGACCATGAG ATTGGCAGTG ATTTGCTTTT GCCTATTTGG TCCCTCCCGG TGAAAGTGAC TGATTCTGGC AGCTCAGAGG AGAAGAAGCT CACCCAGATC CTATAGCCAC ATGGCTGGTG CCTGACCCAT CTCAGAAGCA GCGCACAGA ATGCTGTGTC CTCTGAAGAA AAGGATGACT TTAAGCAAGA AGCAATTCCA ATGAAAGCCA TGACCACTG GACGACGATG ATGACGATGA GGAGACCATG CAGAGAACGA GGATTCTGTG GACTCGGATG AATCTGACGA TCCGATGAGT CTGATGAGAC CTTCACTGCT AGTACACAAG CAGTCGAG	60 120 180 240 300 360 418
(2) INFORMA	ATION FOR SEQ ID NO:1259:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 189 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1259:	
TCTGTCACCC	TAATGCTTGA CTTTTTTTT TTTTTTCTC TTTTTGAGGC AGGTTCTTGC AGGCTGGACT GCAACAGCAT GATCTTGGCT CACCTCCGCC TCCCAGGCTC CCCACCTCAG CCTTCAGAGT GGCAGAGACT ACAGGCTCAT ACCACCGCAC	60 120 180 189
(2) INFORMA	ATION FOR SEQ ID NO:1260:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 278 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1260:	
TATAACAGGT TTCTTATGGT TGGGACAAGG	TCTAGCCTTT CCTCCGTTCA AGTAAATTTA GAAATTTCT AAGTTTTCTT AGCCTAAATC TATATCATAC TTTTAAAATA AAAATCTAGG TGCAAATTTG TAAGGTTAAC ATGTACACTT CACAAACATT GAGACTTTTG TTTTGTTTTC TCTTGTTCTG TCTCCCAGCT GGAGTGGATA CAAGCATGGC TTGCTTCAGC CGGACTCAAG CGATCCCCCC CCCTCGAG	60 120 180 240 278

- (2) INFORMATION FOR SEQ ID NO:1261:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 265 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

GAATTCGGCC	TTCATGGCCT	ACTCACTGGA	TGCTGGGGGA	GGGCCCCTCA	GGTGAGCAGC	60
					ACAAGCTCAC	120
AGGGAAAGCC	GTTCCTTGCT	CCTTGTGGAG	GGAGCTACCG	TCATTGCCCT	GAGACCACCA	180
GCCAAGAAAG	TAGGTATGTC	CAGGTAGGGA	ATTCAGAGGG	ACCCAGTGCA	TCCAATTATA	240
CAATTATACC	CAGAAAGTCC	TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1262:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 426 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

GGTCAGTATT	GAAGGTTGTT	TTCTGAGCCA	TTGTATGAAG	CTGCTGTTTT	GGCGTCCCTA	60
ATGCAGGGTG	AGATGGTAGT	GTGATTCTTG	TTGTGACATC	TCGTGACTGG	GCAGGACGCT	120
GAATACTGAT	TGCTGCAGAT	GGAGGATGCT	GGATAGACAA	${\tt GGTTGGCCTA}$	CTAAGTGCTG	180
AATCAGTAGC	ATGCGCCGCT	GTCGTAGTGA	TGACTGGAGA	CTGAGCTCTG	GTGGCTGAGA	240
CAGTTGCTAC	CACAGCAGGA	GGGATGGCAT	TGGAGGTGGT	CACAGGTGGC	CGAGACTGGA	300
TTGGTTGGTG	AATGATGTGC	TGTACTGCTG	GCTGAGCAGT	AGCAGCATTT	GGCAGCTGTG	360
AGGTCGGCCT	CAGGACTGTG	GTTACTTTAG	AACTGGACAT	CACAGCAGCA	GCAGCTGCAC	420
CTCGAG						426

- (2) INFORMATION FOR SEQ ID NO:1263:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 398 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GAATTCGGCC TTCATC	GCCT AGGCCGGTGT	TTATGCACGA	TGGCGTTGAA	AGCTAGTCCA	60
TCTCTCCAGC TGGTGG	TGAA GTTGTGTACA	TTGACGTTGG	GATAACCTGC	AGTCTTCATC	120
TGGCACCACA GAAGCA	AGGGC ATCCTTGGCT	GACTTCTTCT	CCTTGTTGTC	TTCTGTCTCC	180
ACACTGATGT CTTGGA	ATCTG GAATCGAAGG	ATGATGGTCC	AGACCAGCCC	AAGGGTCAGT	240
CGGTGGTTTC CGTCCA	ACAAT GTCATGGGAG	CCCATGTTTT	CCAAGTGCAC	TTTCTGCTCC	300
TTGAGGAACT GCAGTG	SCCTT GTCCACGTTC	TCCAGGCAGT	GGATCCGCAT	GCGGCCCTTT	360
GTAGGCTTTG GCAGTA	ATCTC TCCCGAGAGC	ACCTCGAG			398

1	771	INFORMATION	FOR	CEO	TD	NO. 1264.

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 256 base pairs
  - (B) TYPE: nucleic acid
  - (C) ·STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTCGGCC TTCATGGCCT AAAAAAG	CT GTTAAGAAAA	TATGTTTTAA	AAATTTGCCC	60
AACAGGAAGG AGAAAATTAG AATCTAAT	AG CAAACTTGTG	TCAAAGCAGG	GGAGACCACA	120
TGATCTTCCT CTTTGAAAAT CTGTCCTG	GG TGATGACCAT	ATGCTCTCTA	AACAGGTTTT	180
CTGTGTTTTA GGGAAAGAAG CTCAGAAA	GG ACCCCTGCTC	TTTGATGACC	TCCCTCCGGC	240
CAGCAGTAAC CTCGAG				256

- (2) INFORMATION FOR SEQ ID NO:1265:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 249 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTCGGCC	TTCATGGCCT	ACAGAGTCTA	ATTAGCCATA	TTTATATGAT	AATAATAAAC	60
ATTTTGGCTA	CAGTCCTACC	TAGATTTTTT	TTTTTTAGAT	${\tt GGAGTCTTGC}$	TCTGTCGCCC	120
AGGCTAGAGT	GCAGTGGTGC	GATCTTGGCT	CACTGCAACT	TCTGCCTCCC	AGGTTCAAGC	180
AACTCTGTTG	CCTCAGCCTC	CCAAGTAGCT	GGGATTACAA	GCGCACATGA	CCACGCCTGG	240
CAGCTCGAG						249

- (2) INFORMATION FOR SEQ ID NO:1266:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 265 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

GAATTCGGCC	TTCATGGCCT	AGGTTATATA	GCAGTGATGC	TTTCATAGTA	TTTTTCTTGA	60
ATAAGGTCCC	CAAAACCTTA	TTAAGTTCCT	GGTAGGCATG	GAGCATTGAA	GATGGCAGAC	120
ATGGTGCAGT	CTCTCAAGGA	GTTTACGCTC	TAGTGGAGAA	AACAATCAGA	CAGCCTTAAA	180
ATACATGTAT	GGCTACTATA	ATAAATACTG	TGAAGCAGGA	GTGCACCACG	AAACCTGGAG	240
TCCTCTCCAT	CCTCCCCTTC	TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1267:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCGGCC	TTCATGGCCT	ACTAGACCTG	CCTCGAGATT	AGGGGGGTTA	GACTCAGAAT	60
TCTGTCCAAA	CTCCTGGACG	ACCTCTTGAA	ATTAAGTCAG	GGATTTTATG	TACTGGGTTA	120
ATTTCGTAAC	CTCTGGGTAT	AATATTAGGT	TTGCATGTAG	AAAGGGTCTC	CAGTATAGGA	180
CTTCAAAGAA	ACTAAGCCAT	AGACGTAATT	TAAGGGCTGT	TCTGATCTGA	AGAAGTGCCA	240
TGGGTAGAAG	TTTTAGCCAT	GGTAAAGAGG	CTTCCTGGCA	TCATTTGCTC	GAG	293
						2, 2 3

- (2) INFORMATION FOR SEQ ID NO:1268:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 501 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCGGCC TCATGGCCTA	CTGGTCCAAG	CTGATTACCC	TCATAGTGTC	CATCATTGAG	60
GAAGACAAGA ATTCCTACAC	TCCCTGCCTC	AACCAGTTTC	CCCAGGAGCT	GAATGTGGGT	120
AAAATCAGCG CTGAAGTGAT	GTGGAATCTG	TTTGCCCAAG	ACATGAAGTA	CGCCATGGAG	180
GAGCACGACA AGCATCGTCT	ATGCAAGAGT	GCCGACTACA	TGAACCTCCA	CTTCAAGGTG	240
AAATGGCTCT ACAATGAGTA	TGTGACGGAA	CTTCCCGCCT	TCAAGGACCG	CGTGCCTGAG	300
TACCCTGCAT GGTTTGAACC	CTTCGTCATC	CAGTGGCTGG	ATGAGAATGA	GGAGGTGTCC	360
CGGGATTTCC TGCACGGTGC	CCTGGAGCGA	GACAAGAAGG	ATGGGTTCCA	GCAGACCTCA	420
GAGCATGCCC TATTCTCCTG	CTCCGTGGTG	GATGTCTTCT	CCCAACTCAA	CCAGAGCTTT	480
GAAATCATCA AGAAACTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:1269:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 330 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC TTCATGGC	CT AGGCCCCTGC	TCCACCTGGG	GGGACTGGGA	GTGTGAGTGT	60
GCATGGCATG TGTGTGGC	AC AGATGGCTGG	GACGGGTGAC	AGTGTGAGTG	CATGTGTGCA	120
TGCATGTGTG TATGTGTGT					180
CTGCTCCTGG CAGAGTGAG	T AACCCAAAGG	CCCCTTCGGC	CTCCTTGTAG	CTGTTTTCTT	240
TCCTTTTGTT GTTGGTTT	TA AAATACATTC	ACACACAAAT	ACAAATTGAC	AGGTCAAAAT	300
CCATGAAATG AGATCCCCC	CA GCGGCTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:1270:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 502 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC	TTCATGGCCT	ААААААААА	TACTGATTCA	CTTTTGCAAT	TTTTCAGATA	60
CTACTTGATG	TGACACCTCC	CCTAGGCTTG	CTGTGGGTCT	CTTGGAAGAT	AGAGCTATAT	120
TAACTCCTTG	ACTTAAAGGG	CAGCAGACTA	TATAAGGTCT	CTTTACAGAC	AGAGTAGGGA	180
GAATAATGAA	AAACTTTTTG	ATTTCTAGAG	AGAAGAGAGA	AGACATAGCA	ATGGAACTGT	240
TCTTAGCTTT	GTTTGCTACA	ACTCTTCAAA	GTTTAATTTT	AGATTCAGTG	CATTTATTCA	300
TAGAGCATGA	AACATATAAT	CATGCCTTTT	${\tt ACTAATTGCG}$	${\tt GATACTTAAA}$	TTATATATTA	360
TTTGACCTAC	TGTGTTATGG	TCAATTTGAA	AAAGAATGGT	TTGATTATAT	ATTATTGTCT	420
GTAGATTCCC	TGTACTATTC	TAGGATCATA	TGACATATTA	TCATTACTAA	ATATAGCACT	480
AATTATTGAT	GCTCCGCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:1271:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 285 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC	TTCATGGCCT	ACCCCTGACT	ATTCAGTAGG	AGAAGAAATC	AAAAATCCAT	60
TCTTTTCTCC	TTCTCTCCCT	CCAACAGTGG	CCAGGGGAAG	GGGAAGTGAG	GGCAGGGGCA	120
AAAAGATTTG	GGAATTTTTA	TTTATTTATT	TATTGTGACT	TTTCATTTTT	TTGGTATTTG	180
GCTTTACTGG	AATAGGAGGG	CCCCTGCCCA	CTGTGCCCCG	TTTATCCCTT	ATTCCCCAAA	240
CCCTGCTCTC	CCCAACACCT	ACTCACTTAA	GCACTTGTCC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:1272:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 405 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: CDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

GAATTCTAGA CCTGCCT	CCA ATTTGAAGAT TTA	TTTCTCT CTTTGGATAT	AGAACAAAAT	60
AACTITATGT ACATTI	ATT TCACTTTATT TTA	CTATTGG GTTGGTGCAA	AACAAATTGC	120
AGTTTTCCCA TGAAAAG	TAA TGGCAAAAAC TGC	AATTACT TTCGCACCAG	CCCAATATTT	180
TATTTTGAGA CAGAGTO	GCA CTCTGTCACC AAG	GCTGGAG TGCAGTGGTG	TCATCCCAAC	240
TCACTACAGC CTCTGCC	TCC TGGGTTGGAG AGA	TTCTTGT GCGTCAGCTT	CATGTGTAAC	300
TGGAATTACA GGTGCAC	GCC ACCACGCCCA GCT	AATTTTT GTATTTTTTG	TAGAGATGGG	360
GTTTCGCCAT GTTGCCC	TGG CTGTTCTCAA ACT	CCTGACC TCGAG		405

- (2) INFORMATION FOR SEQ ID NO:1273:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 412 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273: GCGATTGAAT TCTAGACCTG GCTCGAGGCA GGTCTAGAAT TCAATCGGCT TCCTGGCAGT GCCCTCTCCC AGATGAGACC TGATCTCTTT TTTGTTTTTTT TTTGAGACAGA 120 GTTTTGCTCT TCTTGCCCAG GCTGCAGTGA GTTGAGATCG CACCACTGCA CTCCAGCCTG 180 240 TACTACACTC TAGTGGGGGT AAGAGGCAAT GGGTAAATAG GTAAGTAGAT TATTGGATGT ATTAGAAGGG GCATGGGGAA TGTGGGGTCA AGGTTATAGT TTTAAATAGG GTGGTCAGGG 360 AAAGCTTTCT GAGAAGGTGA CATTTGAAAC AAATACTTGA AGGAGTCTCG AG 412 (2) INFORMATION FOR SEQ ID NO:1274: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274: GAATTCGGCC TTCATGGCCT AGCTATTTTT AAACAATATC TGAGATTATT CATTCAACTA 60 AAACTTATTA AGCATTTAAT ATCTGTCTGG CATTCTTCAG GCACCAAGGA TATTTCGTTG 120 AACAAAACAA AATCTTTGTC ACTATGGAGT TTACGTTTTG TGGTGGCATT GGAGTGAAGA 1.80 GCTAGGGAAT AAAAAAACAA GTCAATATGT AGTATGCCAC TTGGTGGTAA GTCATTTGGA 240 GAATGATGTA GTAGGGAAAG AGGAAAAGGG TGTAGGCATC TCGAG 285 (2) INFORMATION FOR SEQ ID NO:1275: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 280 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275: GAATTCGGCC TTCATGGCCT ACTCCACACA TTCATCTCCC AAAGGACTCC TTGAATATTT 60 GCCCCAAAAC ATCAGCTCCC AGAAAACACC CCTCCCAGTC ACACACACC CCAAATTCTC 180 240 CCTCCCTCCC TCCTTTCCTT CCTCCCCCCA CCCACTCGAG 280 (2) INFORMATION FOR SEQ ID NO:1276: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTCGGCC	TTCATGGCCT	ACGAGTGGTG	CGATTTTTTT	TTCTTAGCTT	ATCAGCTATG	6
GTTAGTGTTA	GCGTATTTTA	TGTGCGGCCC	AAGACAATTC	TTCCTCTTCC	AGTGTGGCCC	120
AGGAAAGCCA	AAAGATTGGA	CACCCCTGGT	AGAGGCAGAA	ACTCACTGGG	TTAGTTCCAC	180
AGCATCTGAT	CAAAGATATG	AGGCCAAAGA	GCCTCTCGAG			220

- (2) INFORMATION FOR SEQ ID NO:1277:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 246 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

CTCGAG	•				0	246
ATAGAAATGG	GAACAGTGTT	GGCCTATGAA	GAATGGAAAT	TGACTGGAAG	GAGGCCTCTG	240
AGTACTCACT	GTGTGAGTCC	ATTTATTTGA	AATTCTAGAA	CAAAAAATAA	ATATCCATTG	180
AGAGTAAGAC	TCCATTTCAA	AAAAAAAAA	AAATGTTGAT	CAAAAGAAGC	CAGATGACAG	120
GAATTCGGCC	TTCATGGCCT	ACGAGCTGAG	ATTGCGCCAC	TGCACTCCAG	CCTAGGCAAT	60

- (2) INFORMATION FOR SEQ ID NO:1278:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 499 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

GAATTCGGCC	TTCATGGCCT	AGCTGGGCGT	GATGGCGGGC	GCCTGTAGTC	CCAGCCACTC	60
GGGAGGCTGA	GGCAGGAGAA	TGGCGTGAAC	CCGGGAGGCG	GAGCTTGCAG	TGAGCCAAGA	120
TTGCGCCACT	${\tt GCACTCCCGC}$	CTGGGCCACA	GAGAGAGACT	CCATCTCNAA	ААААААААА	180
GAAAGAAAAA	AAGAAAATAA	ACAAAGAAAA	AATTAAGATT	TTTGAAATAA	AAACAAATAT	240
TAAAAATTAT	TGAAATATAT	TGAAAGTTTT	TTCACCATAT	ATATTTACCT	TTTAAAAGGA	300
TATGAATTCA	ATTATTTTAT	TTGCTTATGG	AAAATAGATC	CACTGCTCTA	AGATGCTACT	360
AATCATGCTC	AGAGGATTCA	CAACAAACAG	ACTGATAAGG	TATTACTTAA	AGCGCTCTAC	420
ATTAAATAGA	GCATTCCAGT	TTTCTAGGGC	ACACTACTTG	CTGTATTTCC	AAGGTCAAGC	480
AAAATAGCTT	TCGTTCGAG					499

- (2) INFORMATION FOR SEQ ID NO:1279:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 317 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

GAATTCGGCC	TTCATGGCCT	AATGAGCTAA	AAGCAGTGTC	ATCTCCGCAT	GTTGGAGCAG	60
CCAAGAAATA	GTTTGGTACT	ACCGACATTG	TCTAATCCAT	GTCACATCCT	CATACAATTT	120
AATTGCTCAA	CCATGCATTT	AAAACTCCTC	AAGAAAGGAT	TGGTACTGCA	ACTGTAGGTA	180
AACTGAAAAA	AAATAAGAAA	GAAAGAGTTG	GATGAAAATG	TGAAAGCCCA	AGTTTAGATG	240
TGCATTAAGT	ATTAAATAGC	ACAGTATCTT	CTTCATGGAG	CCTTTTTTCC	TCCCCCATCC	300
CCTGCAGCTA	CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:1280:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 407 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

GAATTCGGCC	TTCATGGCCT	ACTTCCTTTC	ATTTTGAAGC	AACAGTTTAT	AAACAGGAAA	60
GTCTACTGGT	TTCATAGAAT	CTGTCAGATT	TGCTTATTTG	CTACTGGTTT	CACGCGCGTG	120
GACTATATTC	CAGTGTTTCT	AGTCAAAGAC	CTTTATCCTC	AAATCATGAG	ATTAGAGTAA	180
AACAACTGCT	GTAAGGTTGA	GCATTTCATG	ACCAATGACT	ATGAAGGCAC	ATTCACCAAA	240
CACAGGCACT	TTAAGGGCAT	CCTTGATTAA	TTTGCTAATT	GCTATTTTTT	GTTGGTATGT	300
GAATTCCTGC	TAGGAGGCCG	AGGCTAGTAG	GCAATGAAAA	AGACAGAACA	ATGGTAAAAT	360
GCAGCCCCGG	TCCTCTACAA	ATTGACAGTA	TAATTTAGGG	GCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1281:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 281 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCGGCC	TTCATGGCCT	AAGATTGACA	AAGAAATAGA	GCTTCACAGA	ATTCTTCATC	60
ATAAGCATGT	AGTGCAGTTT	TACCACTACT	TCGAGGACAA	AGAAAACATT	TACATTCTCT	120
TGGAATACTG	CAGTAGAAGG	TCAATGGCTC	ATATTTTGAA	AGCAAGAAAG	GTGTTGACAG	180
AGCCAGAAGT	TCGATACTAC	CTCAGGCAGA	TTGTGTCTGG	ACTGAAATAC	CTTCATGAAC	240
AAGAAATCTT	GCACAGAGAT	CTCAAACTAG	GGAACCTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:1282:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

TGTGCCCTTT TATATGCACC	TTCATGGCCT AGTAGTTTAT TATATAGAAA TTATTTGTCC TTGTCT GACTCAGCAA TTCCCCTTCT ATAAAATTTT CCCAAGCAGA TGATTA AATTTGGAAA CAGGGATGTT TATTGTTTAT AGTAGCACTC AACTGA TCTTCAGGAG CGGGGACTGA TTAAATTATG ACATGAAGCA GAATAA	ATGGA 120 AAAAC 180
(2) INFORMA	ATION FOR SEQ ID NO:1283:	
(i) s	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 257 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1283:	
TGACACTCAA AAAGCATGCA	TTCATGGCCT AGCTGAAGAA GGCCTTCACA GAGCTTCAAG CCAAAG CAGAAGGTGA AGCTCGCAGA CATACAGATT GAACAGCTAA ACAGAA CATCTTACAG ATACAGAGAT CATGACTTTG GTAGATGAGA CTAACA GGAAGAATGT TTATTCTTCA GTCCAAGGAA GCAATTCACA GTCAGC TCTCGAG	CGAA 120 TGTA 180
(2) INFORMA	ATION FOR SEQ ID NO:1284:	
(i) S	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 434 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1284:	
TAATTTGCAT  GAAAGGTATT  CCTTTATCAA  TAGTTAATTA  GCTACAAAAC	TTCATGGCCT AAAGACTAGC ATATTATCT TTGACTTGAT TAATCA TCGCAAATGA GACTGATAAA AATGGATTTA CCTTTTAACC TTTAGA TCTCTGCAAG ATTCTGGGG CTATCGTTTC TTAACCGATA AGAAGC TAAAGATGAA AATCCGCAAT TTGCATTAGT GAATGGGACT GATTAT GCATCTGGAA ATGAGGATTA TCTTAATTAC AAAGCACAAT TTCCCT TGTAAGTTTG ATCCATGTGG AAATTGGTAA CATTATTATG TAATTA AGTGTAGAAT ATTTAGATGT AATTTGCATA TGCAAATGTG ATTTAC CGAG	GGAG 120 CACT 180 TATA 240 AATA 300 GTGA 360
(2) INFORMA	ATION FOR SEQ ID NO:1285:	
(i) s	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 302 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	

60

120

AGCAATATTT ATTTTAGACA GACTTCTGCG TTATGACCCG GCTGCTGGGC TACGTGGACC

CCCTGGATCC CAGCTTTGTG GCTGCCGTCA TCACCATCAC CTTCAATCCG CTCTACTGGA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

ATGTGGTTGC ACGATGGGAA CACAAGACCC GCAAGCTGAG CAGGGCCTTC GGATCCCCCT ACCTGGCCTG CTACTCTCTA AGCATCACCA TCCTGCTCCT GAACTTCCTG CGCTCGCACT GCTTCACGCA GGCCATGCTG AGCCAGCCCA GGATGGAGAG CCTGGACACC CCCGCACTCG AG	180 240 300 302
(2) INFORMATION FOR SEQ ID NO:1286:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 245 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:	
GAATTCGGCC TTCATGGCCT AATCTTTTCT AATTTGTCTT AATGCTTTAT AATTTTCTAT GCAGAGGTCT TGTAGATCTC TTTCCAAGAT ATTTGATGTT TGTTTGTTT TGTTTTTTGA GACGGAGTCT CACTCTGTTG CCCAGGCTGG AGTGCAGTGG CGTGATCTTG GCTCACTGCA ACCTCCGCCT CCTGGGTTCA AGCAATTCTC CTGCCTCAGC CTCCCAAGTC TCGAG	60 120 180 240 245
(2) INFORMATION FOR SEQ ID NO:1287:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 232 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:  GAATTCGGCC TTCATGGCCT AATTTTTTT CTCCTCTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAATA ATTTTGGGGC AGTTTTTCC TTTAATTATT TTTTCAATT TCAAGTTTAA TTTTATTTTA	60 120 180 232
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:  GAATTCGGCC TTCATGGCCT AATTTTTTTT CTCCTCTTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAATA ATTTTGGGGC AGTTTTTCC TTTAATTATT TTTTTCAATT TCAAGTTTAA TTTTATTTTA	120 180
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:  GAATTCGGCC TTCATGGCCT AATTTTTTT CTCCTCTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAATA ATTTTGGGGC AGTTTTTCC TTTAATTATT TTTTCAATT TCAAGTTTAA TTTTATTTTA	120 180
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:  GAATTCGGCC TTCATGGCCT AATTTTTTTT CTCCTCTTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAATA ATTTTGGGGC AGTTTTTTCC TTTAATTATT TTTTTCAATT TCAAGTTTAA TTTTATTTTA	120 180
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:  GAATTCGGCC TTCATGGCCT AATTTTTTTT CTCCTCTTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAATA ATTTTGGGGC AGTTTTTCC TTTAATTATT TTTTTCAATT TCAAGTTTAA TTTTATTTTA	120 180
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:  GAATTCGGCC TTCATGGCCT AATTTTTTTT CTCCTCTTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAAATA ATTTTGGGGC AGTTTTTCC TTTAATTATT TTTTTCAATT TCAAGTTTAA TTTTATTTTA	120 180

(i) SEQUENCE CHARACTERISTICS:

<ul><li>(A) LENGTH: 227 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:	
GCGATTGAAT TCTAGACCTG CCTCGAGCCA TACCCATGGT CAGCCTCTTC CTCGTGTTCA CGGCCTTCGT CATCAGCAAC ATCGGCCACA TCCGCCCGCA GAGGACCATT CTGGCTTTTG TCTCTGGCAT CTTCTTCATA CTATCGGGCC TCTCCTTGGT GGTGGGCTTG GTTCTTTACA TCTCCAGCAT CAACGACGAG GTCATGAACA GGCCCAAACA GCTCGAG	60 120 180 227
(2) INFORMATION FOR SEQ ID NO:1290:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 264 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:	
GAATTCGGCC TTCATGGCCT AGACAACTCT TAGCTAAATG TGGTTTGGTT	60 120 180 240 264
(2) INFORMATION FOR SEQ ID NO:1291:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 323 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:	
GAATTCGGCC TTCATGGCCT AGGTGCTCTC AAGGATCAGT ACTGGGTAAC AATAATCAAA CTTTGAATTT AAACATGCAT CTATTATTTG TGTTTTTTGT TTTTGTTTTT GAGGCAAAGT CTCACTCTGT CACCCAGGCT GGAGTGAAGC AGCCCAATCT TGGCTTACTG CAACCTCCAC CCCCTGGGTT CAAGCAATTC TCCTGCCTCA GTCTACCTAG TGGCTGGGAT TACAGGCGCC CGCCACCACG CCCAGGTAAT TTTTGTGTTT TAGTAGAGAT GGGGTTTCAC CATGTTGGCC AGGCTGGTCT AGAATTCAAT CGG	60 120 180 240 300 323
(2) INFORMATION FOR SEQ ID NO:1292:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 289 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
520	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GCTCGAGAAA	CTTCTGCTGC	ACGTGCGTCT	TCCCCTCCAC	CTTCACCCCT	TGTGGCTCAC	60
TCACGCACCC	ACTCTCCAGT	CCACCCCTCC	TCAGAGACCC	TGTCCACTCA	TCCATCTCTC	120
TCCCATTGCG	CTTCCTCTTC	ACTCCGTTCC	TTCTGCCTCC	CACCATATGC	AAATCTTCTC	180
					AACTTCCTGT	240
GACTCCCTGC						
	00110110	~	Crumonon	recereren		289

- (2) INFORMATION FOR SEQ ID NO:1293:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 421 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC TTCA	TGGCCT AGTTGAAATC	TTTAGGAATG	AACTTCTGAG	GGCCAAAAAA	60
TGTGACTGAC GGGA	ACAATT CTTAAACTGA	TTAACTAGCT	GTAATATAGT	TTTGTGAATT	120
TATTGCACTG ATGT	TGTACC TTGTGGTATA	TCTGTCCCTA	TTAAATAAGT	GTTGTTTTCT	180
CCTCTTTAAT ATTG	CTGTGA ACAGTGGTGC	CCATTGTAGC	ATATGTTTGA	TTTTTTTTTA	240
TTATTTCATA AGAA	AACTAC GTTAATTTTA	CCTTACTTTC	ATTGTAAATA	AGCCTGTCTT	300
CCTATCTGGA TTTT	TTGTGT GCATACATAT	TCTACTGATT	AACTACTTTT	GCAGTTTTAA	360
TCCTGTATTA TTTC	TTCTAC TTTGTTTTGT	GTAAAAGGGG	AAAAAATAAA	AAAAGCTCGA	420
G					421

- (2) INFORMATION FOR SEQ ID NO:1294:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 408 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC TTCATGGCCT	ACAGGTGTAT	GTCACCATGC	CTGGCTAATT	TTGTTTTTCT	60
TTTCTTTTTT TTTTTTCCT	AGAGACAGGG	TCTCACTATG	TTGTCTGTCC	TGGCTGGTCT	120
CAAACTCCTG GGCTCCATCT	TCCCGCTTCG	GCTTCCTGAA	GTGCTGGGAT	TACAATAGGC	180
ATGAGCCACT ATGCCCATCC	TAAAGTTTTA	CAGCCCAATA	ATAGTAATAT	TCCATCACTA	240
CAGCTATCAT TGAGTTTCAG	AAGTTAGACT	GTTAAAAGTT	TCAGTAAAGA	GCTTTAACCA	300
GTTTATTGTG GCAATACTGT	GTACACAATT	ATTTTTTGTA	AAAGGAAGGA	GATTTCTGTC	360
TTAAATAGCT TTAATAAAGT	TTCAGTTTCA	TATACAGGAA	ACCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:1295:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 259 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC	TTCATGGCCT	ACAGGCACTC	CAGTTATAAT	TATGTGCCTT	TCTTCCATTT	60
CTACCACTTT	CTCTGATACT	TCTCACTTCT	TTCTCTGGTA	CTTCTCACTT	CTTTCTCTGG	120
TATCATTTTC	ATTCTTCATC	ATTGTTTTAG	TGCCTTTACT	TCAATTCCTT	CATTATTTGA	180
ATTTTTCTTT	TTATCATCTT	GTGATTCAGT	TTTTATTTAT	TTTTTGATAG	TATTCTCCTT	240
TTCTTCCATT	CCACTCGAG					259

- (2) INFORMATION FOR SEQ ID NO:1296:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 257 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

GAATTCGGCC	TTCATGGCCT	AGTGGAGAGT	GCTATCATTA	ACACCTGAAC	TCTGGGCCAG	60
CTTAAGTGTA	TATTCTGTAA	AAAATTTGAA	ATCCCCCAAA	TGTCACATGC	TATGACAGTC	120
ACTTTCTTTA	GTACTTTGTA	ATCATACAAA	ATGGTGTATG	GGCTAAATAT	TGCAGCACCT	180
ATGTCGTCAT	CCTCCATGTT	GCTTATTGAT	CATGGAATGT	TAATTTAGCA	ATAATTTTCT	240
CTGTGTGTGC	GCTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:1297:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 327 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC	TTCATGCAAG	TAGGGTATGT	AGGCTTCAGT	TGGTTCTACT	TTCAGAGAGT	60
TAAGATGGAA	TGAGGCAGCT	CATGGCACTA	CAGGTCAGTT	GCCTTCTCTC	CAAAATGTTC	120
ACTCATGCAT	GTGGGCACTC	ATTGTATTTG	AATAACAGCA	ACAGTGCCTC	CCTCAGTTTG	180
GAACCTCTAG	TCCACTTGCT	CACTCATGGT	CCCTGCCTTA	ACCCCAGTCA	AGTTCAAAGC	240
CATAGGCATC	ATTTGTCCGA	CTGACATATT	AGGGCATCTA	CCAGTCAAAG	GGTGATTGTT	300
GTAGATGACC	TTTGGCCCGT	TCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:1298:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GGTATGGAGT AATGAAATGT GAACCTGGAG	TTCATGGCCT ACACTCTCAT GTTTGTTGCA GCATTATTCA CAATAGCCAA CAACCTGAAT GTCGAACACA TGAATGGATA AAGAAAATGT TCACACACAC GATTTAGCCT TTAAAAAGAA GGAAATCCTG CCATTTGGAA CAACATGGAT GGCATTGTGC TAAGTGAAAT AAACCAGACA CAGAAAGACA AACACTGCAT ACTGTGGAAC CCCTCGAATT CTGGATCTCC CTCGAG	60 120 180 240 286
(2) INFORM	ATION FOR SEQ ID NO:1299:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 285 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1299:	
GTCAGTATCC AGAGTGCTAC TAAAAACTGG	TTCATGGCCT AATGAATTTA GTATTATTTC TATCATTTCA ATTGCAAATT CCTGCTACGT TTCTACTAAT TTACCATCGC TTCTTCAAAA AATTGTGTTC AATTTCAGAC TTTGAAATGA ATCACTATAA CTTTTAAAAA TTAGAGATTT AGATTGAATA TATATAAAAA ATACAAAATT TGACATTTAA AACCTCATTG AAAGCCAGAC TCATATTAAG GCACACACCC TCGAG	60 120 180 240 285
(2) INFORM	ATION FOR SEQ ID NO:1300:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1300:	
TTCCTGAACC AAAGTCCCAA AGACCCTTTC GGGGTTGGCT	TTCATGGCCT AGGGCCAATG GCCAGGATCT CTGGGGACTA GAAGGGTGGA TGGGTAACAA CGAGACAAAC TCTAGCAATC TGAGCAAGGG AAGGGTCATC AATCTAGCCC ACTAGCTGCC TAGCCAGGTA AACCAAGGCT TAGGGAGTTT ACATAAAGAA GCTTAATAAA AAGTGTTGGG TGAAGAGATA AACACATGAA AAAGTCAAAA GAAGATCCGA GGCAGGTCTA GAATTCAATC GG	60 120 180 240 292
(2) INFORM	ATION FOR SEQ ID NO:1301:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 548 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1301:	
AAACACAGCA AACATCTTCC CATCAGCTCC	TTCATGGCCT ACTCCTCATT TGCCACCACC AGGCCAGTTT GTCCCTTTCC ATCACGATCG CCTCTGCAAA GGATAGAAAA TGAAGTGGAA CTCTTAGGAG AGTAGGAGGT TTTACTTACC CTCCATCAGC CCACCCCCCA ACATTACCTC CTTGCAGTTC TTAACACATG ATCCTTTGCA TCAGGAGGTG TCCTTTGGAG TCCATTTATG CCTCGGAGGC TTACAGGATA GTAGATACCG ATCCCAGCAG	60 120 180 240 300

CCAATACCAC CTCCCCCTTA TCATCCCAGC TTACTGCCAT ATGTGTTATC AATGCTTCCA GTGCCACCTG CAGTGGGCCC AACTTTCAGC TTTGAATTAG ATGTAGAAGA TGGAGAAGTA GAAAATTACG AGGCCCTGTT AAACCTGGCA GAGCGACTGG GAGAGGCAAA GCCTCGTGGA CTGACTAAAG CAGATATTGA ACAACTTCCT TCTTATCGGT TCAATCCTAA CAACCACCAA TCCTCGAG	360 420 480 540 548
(2) INFORMATION FOR SEQ ID NO:1302: .	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 384 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:	
GAATTCGGCC TTCATGGCCT AGTATCTATC TAGTGCCTGT TTGTGCGTTT TTTTCTTTCT TCCGCTGCTT CCCCATTTTC CTTCTGTCCT TTTTCTCCTG CTCCTTGTTT TCCCAGCAGC ACATGGGGTT CCTCGGAGGA GCAGAGGTGG CCGCCGTGG GGGCGCTTT GGCCCAACT CCAGGCGTG CTGCGTCATT TTTCCTTTGC TTTCTCTTTA CTTTAGACAC TGGCCCAACT CCAGGCGTTT CCTTTCATTC CCTCAGTGCT TCTCTTCTGA CCTGCATGTT GAGTTCTGTA TTGCTGGGGC TTCCAACAAA AACCAGAGTC ACTGACAGAG GGAACAGCAG AGACCTTGTT GGTATTCAGC TGTGATGGAT ATAGCGATCT CGAG	60 120 180 240 300 360 384
(2) INFORMATION FOR SEQ ID NO:1303:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 140 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:	
GAATTCGGCC AAAGAGGCCT AGGGTACGTG AATCTATTTT TTCAGCTGGA AATTTTATGA AATCTGGTGT GTATTTTATA CTTATAGCAT ATCTCGAGGC AGGTCTAAAT TCAATTCTAG ACCTGCCTCA AGAGCTCGAG	60 120 140
(2) INFORMATION FOR SEQ ID NO:1304:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 620 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:	
GAATTCGGCC AAAGAGGCCT AAATAAGTTT ACTTTTATTT TTGGTAACAC TTTACTGCAT TGTCTGAATA TTGACAATCA GTATGCATTA TGAAGCTACC TGGCTAACAT TGTGTACTCA CTGTGTGTGC CAGGCCCTGG GTTCAATGCT CTACATGCAC TTATATTTCA TTTAATTCTC TCTGCAACCT GAGATGGTAT AGCCACCTCA TTTTACAGAG TTGAAACTGA GGCTCAGAGA CTGAAAGTTA AGCCTGAGGT TGCAGTCAAT AAGAGGCAGA GCTGGAACTG AAACCTACCT	60 120 180 240 300
524	

GTGTCTGACC	ACCAGTTCGT	GTTCTGACGG	CAGGCTAGTC	TGCATCACAG	AGTGTGGAGT	360
AGATGGTGCA	TGCCTGCTAG	GATGGGCTAG	GTATCACTGT	AGGTAAGAAA	CAGCCCCAAA	420
CTATGGAAAT	GTACACCACC	GAAGGCTCTT	TTCCTGCCCA	TGCTGCACAT	CCTCCATGGC	480
TCTCCTGTGC	CCTGTGCCCC	ACATGCCCTC	ATCCTGCCAC	GAGAATAAAG	GAGCAGCCTC	540
CATATGGGAG	CTGTCAGCTG	CTCTAAGAGA	TGAAGGAGAG	AGTGGCCCGT	CTCAATGGCT	600
CCCAACTCTT	CTGCCTCGAG					620

- (2) INFORMATION FOR SEQ ID NO:1305:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 736 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

GAATTCGGCC	AAAGAGGCCT	ACTTTTGGCT	CAATGTTTTC	CAAACTTATT	TGACCCCAAA	60
ACCTTTTTCA	TATACCCAAT	AATAAGCTAC	AGAACTAATA	TTCTGCAAAT	GTCTCTTGGA	120
ACACACTGCC	TTAAACAGAT	ATTTCTATAG	CTGTCAGTAT	AGTTATGTTG	CTCCCAAGCC	180
TAGTTATCTC	CAGTTGTTTT	AAGGGTGTTA	TGAAAAATTC	TTAAAATATA	TATGAATTTG	240
TGTAACACAC	ACAGAGACAC	ACACACATAC	TACTTTAAGG	GGGTGAGGAT	CATTAATTCA	300
GATAATTTTT	AAGTTTCCTA	GTGATTCTCA	ATCTCTTTGA	ATTTTACTTA	CATTTACACA	360
CACACGCACA	CACATATGTA	TATACACATA	TCATTTTAAG	AAGCTGAGGA	TCACTAATTC	420
AGATAATGTA	TAAGTTTCCC	AGTGATTCTC	AACCTCTTTG	AATTTTACTT	ATAATTACAT	480
ACACACACAC	ACTGCTACTT	ATATAAATGT	TCTCATGTAA	TCATGGTAAC	AGCTCAAATT	540
CCCAAAGCAA	GGGAAGACTT	CTCATTGTCA	GTTAAACCTG	TTAAAACATG	AAAATATTCA	600
TTGAGCCTAG	TTCCTTGTTA	TAAAATACAA	GAAATAAGAC	ATTCAGGCAT	TTTCCCTTTA	660
TGAAGATGTT	CAGTCATCCT	TTCCTTGAAC	TACAATTAGG	AAAAGTATAT	GTCTTTATTC	720
CATTGAAGTT	CTCGAG					736

- (2) INFORMATION FOR SEQ ID NO:1306:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 511 base pairs(B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GAATTCGGCC	AAAGAGGCCT	ACAGCAATAT	GCATCTTGCA	CGTCTGGTCG	GCTCCTGCTC	60
CCTCCTTCTG	CTACTGGGGG	CCCTGTCTGG	ATGGGCGGCC	AGCGATGACC	CCATTGAGAA	120
GGTCATTGAA	GGGATCAACC	GAGGGCTGAG	CAATGCAGAG	AGAGAGGTGG	GCAAGGCCCT	180
GGATGGCATC	AACAGTGGAA	TCACGCATGC	CGGAAGGGAA	GTGGAGAAGG	TTTTCAACGG	240
ACTTAGCAAC	ATGGGGAGCC	ACACCGGCAA	GGAGTTGGAC	AAAGGCGTCC	AGGGGCTCAA	300
CCACGGCATG	GACAAGGTTG	CCCATGAGAT	CAACCATGGT	ATTGGACAAG	CAGGAAAGGA	360
AGCAGAGAAG	CTTGGCCATG	GGGTCAACAA	CGCTGCTGGA	CAGGTTGGGA	AGGAGGCAGA	420
CAAACTGATC	CATCATGGGG	TCCATCACGG	GGCCAACCAG	GCGGGAAGTG	AGGCAGGGAA	480
GTTTGGCCAG	GGAGTCGACA	ATGCACTCGA	G			511

- (2) INFORMATION FOR SEQ ID NO:1307:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 219 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATTCGGCC AAAGAGGCCT AA	ATTTTTCCC CACACCACAC	CACTGTCCTC	TGTGCCTGTG	60
GAAACCACTC AAATGCCTCT CC	CCCAAGCCT TCTTTCAGTA	ACAACCATCT	CATCCGGTTG	120
ATTACTGTAG CTTTCGGCCT GT	PATAACCCC TCCTTATGTC	ATGCCTGTAC	CAGATGTTCC	180
ACTGCATCTG TATCCCACCA GA	ATTGCACAT ACTCTCGAG			219

- (2) INFORMATION FOR SEQ ID NO:1308:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 344 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GCACTGCGCC	TGGCCCTTGT	GGATACTTTC	TAGGTGATTT	GAGGAGGAAA	GGCACAGCCA	60
TGTCTCCTAA	AGTTAACAAG	CACTAAGCTT	TCCCAAGTAG	TGAAATGTCA	AGCCTCTGCT	120
TCTGTCACTT	ATTTGTTCAT	TCAGCAGAAA	GTCACTGAGA	GCCTTCTGTA	CACCAGGCAC	180
AGTGCTGGGC	AGTGAAAGAG	ACAGACATGT	CCCTGGATCC	AGGGAGGAGA	TGACCAAGTG	240
ATGGCTGTCA	GGCCCAGACC	TTGCTGTTTG	TCTGCAGCCT	CTTCCCTCAG	GCAACTTGTT	300
CTCTATCAGG	AGAAATGAAA	TAATTATTAT	CTGGAGCTCT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:1309:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 565 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCGGCC TTCATGCCT	AAAAGGGTCA	GAGGAAGGCA	GTATCCTTGG	GGTGTTGCTG	60
AAGTTGAAAA TGGTGAACAT	TGTGATTTTA	CAATCCTAAG	AAATATGTTG	ATAAGAACAC	120
ACATGCAGGA CTTGAAAGAT	GTTACTAATA	ATGTCCACTA	TGAGAACTAC	AGAAGCAGAA	180
AACTTGCAGC TGTGACTTAT	AATGGAGTTG	ATAACAACAA	GAATAAAGGG	CAGCTGACTA	240
AGAGCCCTCG AGTTGCAGGC	AGCCCAGATC	ATGCCACTGC	TCTCCAGCCT	GGGTGACAGA	300
GCAAGACTCT GTGCCCCCC	CCCACCCCAA	AAAAAAAGAA	AACAAAAATT	AAAATCTTTA	360
GTTACTGTAT TATTCAAAA	TGTCTACTTT	CAAGAAAAAC	TACAGCCATG	CAAAGAAACA	420
GTAAAATGTG ACCATACTC	GGAAAAAAAG	CAGACAATAG	AAATGGCTTC	TCAGTAGGGC	480
TATATGTTGG ATTTAGCAGO	CAAAGACTTC	AGAGGCCTTT	TAATAAGTAT	ATTCAAAGAA	540
TTACAGGAAA ATATGAAAA	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:1310:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 104 base pairs
    - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:	
TGCACAGCTG TAGTACCCCA AGAAGAAAAT GTTACTTCTC TCATCTGGGC AAAACCCACA GAAGACTTCC CAGCTTCTGC CACATAAAAG ACACAGAACT CGAG	60 104
(2) INFORMATION FOR SEQ ID NO:1311:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 105 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:	
GAATTTTGCG TTCTGTTTAG CATGCTATCC TGTGTGAAAG AAACTGAAAT CCAATATTAT GGAGAGTATG TTAAAGCCAC CTCTGAAATG AAGACCACTC TCGAG	60 105
(2) INFORMATION FOR SEQ ID NO:1312:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 407 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:	
GAATTCGGCC TTCATGGCCT AAAGGGAAGG GAGGTGTGAG GAGGATGGAG TAAGAGTGAG AGGTCCTAAG AACATGGAGG GAGGCTGTGT GTGATCGATG GAGAAATATG GTCCTGAGAG ATTTCTTGTA GTCAAGAATG GCCAATACAT GTCTACCTTT AACTGGTATT GGAAGGAAGT AGTTTCCTGC TCTGTGCTCT AAATACTCTC TATTACCCTC AAGATGTCAG CAAAATGTGA TACATAGCAA TCTTGTGTTA GAGATGCTT AGGAATTGCA GAAAAACCAT GCTATCAAGT GGTAGGGAAG TGAGTGGCAA GAGGATGTCT GTCACAGAAA CTAGGGATAG AGGGGCTGGC AATGCCAGAGA ATGCAGGTGG AGTGGACTGA TTAAGGGGAG TCTCGAG	120 180 240 300
(2) INFORMATION FOR SEQ ID NO:1313:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:	
GAATTCGGCC TTCATGGCCT AGGTCTTGCC ACATTGGCCA GGCTGGTCTC GAACTCCTGG	60

GTTCAAGTAG TCCTCCACCT CAGCCTCTCA AAGTACTGGG ATTACAAGCG TTGAGCCACC	120
CTCCCAGCCT TTGCCTTTTT TTTTTTTTT TTTTTTTTTA GGAGGAGAAT TAATTGATAC	180
ATAGACCCCT TAAGAGAAGG GATGCTATGG GCAGGAAGAG ATTGAAGGTA AAGGAAAAAG	240
GATTCAGCAC CCAAGCAAAA CAATTGGCCT GTGATAGAAG GGCGATCTCG AG	292
(2) INFORMATION FOR SEQ ID NO:1314:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 309 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:	
GAATTCGGCC TTCATGGCCT AGATCCAAGA AGCTCAACAG ACCTCAAGTA GGATAAACAC	
AAACAGATCT TCACTAAGTC CTACTGCTGA AAGACAAAGA CGAGGAGAAC ATCTTGAAAG	60
CAGTGAGAGA AAAACAACTC ATTATGGAGA GAGCAATGAT AAAATTCTTA TCAGAACAGT	120
GGAGGCCAGA AGGAAATAGA GTGACATATT CAAAATGCTG AAGGAAAAAT TTGCAACTAC	180
AAGTTCTAGA TCCAGCAAAA TTATCCTTCA AGAATGAAGG TTTAGTAAAG ACATTCCAG	240
ACCCTCGAG	300
	309
(2) INFORMATION FOR SEQ ID NO:1315:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 469 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(all granning business	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:	
GGCCCCAGCT CCTGAGTAGC TGGGATTACA GGCATGCACC ACCACACCCA GCTAATTTTG	60
TATTTTTAGT AGAGACAGGG TTTCACCATG TTGGTCGGGC TGGTCTCAAA CTCCTGACCT	60
CAGTGATCCA CCCGCCTTAG CCTCCCAGAG TGTTAGAATT ACAGGCGTGA GCCACTGCAC	120
CCGGCTGGGA AACATTTTA AAACGGCGCA GGGTTGTCCT TGAAAGTCCC AGGTTTCCTC	180
ATTGGCCCTG CCATTGGCGG GTGGGTGATT TCAGGCAGGA CACGCAGTGT CTGGGGACCC	240
TGGCTTTCTC ACTGGAAGAC GATTGTTATG GTCCAGAGGG TGGTAACTCA GGTGTTCATG	300
TOTGATTOTG GATGTTCTCT GCAGCTGCTG GAGTCTCCTG ATTGGAGAGC AGCAAATGAC	360
TGTTCAATGA CAGTTCTAGT TGTACCTCTA GCACCCCCAC TCGCTCGAG	420 469
	407
(2) INFORMATION FOR SEQ ID NO:1316;	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 262 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) DODG OW. 1:	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC TTCATGGCCT AATCTATGTG TGTCAACTTT CATAGAACCC TACACCAAAA 60 AAGGTGAATT TTATTTCGTG ATAAATTAAA AAGTAAAACA AAAGAGACAA AAATAGTAAC 120

CAGGGAAGCT	TTCAAAAAAT	ATATGTTCTT	GTTCAAGACC	AGCATGGCCA	ACATGGCGAA	180
ATCCCATCTC	TAAAAAAAT	AGAAAAATTA	GCCAGGCGTG	GTGGTGGGCG	CATGTAGTCC	240
CAGCTATCCA	GCACCGCTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:1317:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 497 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC	TTCATGGCCT	AAAGGAATGG	TATTTTGGCA	ACGCAGACAA	AGAAAGGAGT	60
		GATGCAAGAA				120
ACCAGATGCT	GGGCTCAAGG	CATGGATGGA	TGGCGACCAC	TTCAGTCCAT	ACCCCAGCTC	180
		AGACAACCAC				240
		TATTTGAAAG				300
		AACCTACTCA				360
		CGGGTTTGAG				420
CTCATTCTGC	ACCACGTGCT	GTCAGCCAGG	CAGCCAATGT	GGACTTGGAG	GCTGGCATCT	480
GCTGGGCACT	GCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:1318:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 451 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

GAATTCGGCC	TTCATGGCCT	AATCTGGATG	TCTGTCCAAG	GCCTGACTGC	TGAACTCCTA	60
CTTTTCCTAC	AAAACCCTAC	CCACATGGCC	CTTCCTGCGG	GAAGAGATCT	TGAGCCTCCC	120
			TTTTACTGGA			180
			GCCCAGTGGT			240
			CTGTGGCTCC			300
			TCCCACAGGG			360
CCACCCATCA	CAGCTAGGGC	CTGGGATGGG	TCAGACACTG	GAAGAGCCTC	CCCCTAGGCC	420
ATGCATATGG	ATCGTGCCCA	CACGCCTCGA	G			451

- (2) INFORMATION FOR SEQ ID NO:1319:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 477 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

GAATTCGGCC TTCATGGCCT ACACTACGGT ACTCCCAGCA TATCACCCTT AATGTAACTT TAAATAACAT GGCCATTTT TAAAAAGGAC ACAGGAACTA CATAACATTT TTTTTCAGAT TTTGGAAAAT TCTAAATATG TCTAGAAAAA CTTTTCTTTC TGTTCCATTC TCCTTCCTAT TCTCCATGAC CCCCTCCCCG CGGACTGTAT CAGGTACAGC CTGTTGGAAAA TCCAGCACCG CACATTAGGC ACACCAGTGG TAAGTTTACT TGTTGAGATA TCACCTTTTT TTTCCTTTTA ATCAGAGAGG CAGCTCTGTG TTGAAGATGC TAGGTAGTGA TGGAAAAGAC ATTAGGAAAA TTTGTTACCG TGGTAACCGG GGATGGACAT CATGACCTTT TGTGATATGC ATGCTGTGGC CTTGGTAGTC TCTTCCCCTA ATTAACATCC TGTGAGAAAC GTGAGAGATG ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1320:	60 120 180 240 300 360 420 477
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 284 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:	
GAATTCGGCC TTCATGGCCT AGACGGAGGC TGGAGATTCA CATGGGGCGA GGAGTTGCAG ACCAGCCTGG GCAAAGCATG GTGAGGCCCC GTCTCTGCAG AAATGAGAAA ATGAGCTGGA TGTAGTGGCA CCGACATGTG GTCCCAGCTG CTGGGAGGCC TGAGGTGGGA GGATTGCTTG AGCCTAGGAG TTCAAGGCTG CGGTGAGTAG ATCGTGCCAC TGCGCTCCAT CCCTGGCAAC AGAGCAAGAT CATTTCTCAA AAAGAAAAAA AAAGCCATCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:1321:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 254 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:	
GAATTCGGCC TTCATGGCCT AGGGAAATGT GTGATTGGGA AAGAGGCAGC TTTTAAAAAT GTGTCTGGCC TTTGACCACG CAATTTCACT TTCCAGTATT TATTCTAGGA AAATACTCAT ACTATTGCAA AGTTTATATA TAAAGATAGT TATAACTGCA TTGTTTATCA TTTACAAAAA GAAAACATCT GAAAGCCCAA CAAGACGGAA CTGGTTATTC CACATTGGCA CATTCATACA AGGCAATGCT CGAG	60 120 180 240 254
(2) INFORMATION FOR SEQ ID NO:1322:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 352 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:	
GAATTCGGCC TTCATGGCCT AGGCACAGAA AAATTGGAAA GGATTGGTGG TCGTACATCT TGCAGCTCAC TTAGTAGCTG CATGCATGTA GACCGGGTGG TGTTGATGCA GTGTTGACTT	60 120

GCTGGCATTG GGGTGGGTGG TAGCATGGTC AAGCTGGCTG AGTGATGGGA TATTGTCTCA GAGGTTGGTG CAGGGAAACT CTGTGGGTGT GTCTAATGCA AGGATAATGA CAATGTCCTG TCTGCCTGGT CTTTGGGGGG TCAGGTGGAG ATGTCCTTTT GGAAAGGCAG CCATTCTCTT TGAGTGTCCA GAGGGCATGG TGCAGGCACA TGGATTGAGT GGAAGGACTCG AG	180 240 300 352
(2) INFORMATION FOR SEQ ID NO:1323:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 440 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:	
GAATTCGGCC TTCANGGCCT ACTGTGTA GAATTCTGTT TTCTCATGAT ATTGAAGACA TTATTCCAGT ACTTTGACTG CTAGTATTGC TGTTGAAAAG TCTTAATTGC CCTTCCTTTG TAGAGTAATAA CCCTTTTATT TGGCTGTGT AAGCCTTTTT TTTTCCTTCC CATTTAGTGT TGTAATCCCA CTTGGGATTC TTTGGGCTTC CTGGATCTGA GGATAATAAT AATGTCTTTG AATAATTGTG GAAAATTCTT AACCATTATC TCTTTGAATA ATGCCTCTTA TTTTCCTTT CTATAACTCT AATTAGACAT ATAGTCTATT TTTCATGTTA CTTATGCCTT TCATCCTTT TTCGTCTCCA CATACTCGAG	60 120 180 240 300 360 420 440
(2) INFORMATION FOR SEQ ID NO:1324:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 280 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TAAAATGCCC AGTTACCTGA AATTGTATAA ATTCTTGCCA AAAGTGTTTG AACTTAATAC AAACTTCCCA TCTCTTACCT CTTAGCACTG TGCTCATCTT GAGGGGACAT AGTCCCAATT TTGTATTTTA TATAATACTG TTAATGAATA TGTGTAGACT TCATATGGTT GTGGGTAAGA GAATACTGCA TTCAGATAGA AAAGATGCTA TATAGCTAAG TTGATCCGCG GATCCTCGAG	60 120 180 240 280
(2) INFORMATION FOR SEQ ID NO:1325:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 281 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:	
GTTTCCTTTT CTACTTACAA AGAAAATAAA TAGAAATAGA TTTTACATGC TTTATTTCTT TGAGACAAGC CATTGTAAAT TGTTACTAGA CTAAGTAGTA GTATACCAGT CATTGACTGG	60 120

TCTTTTCAAC TCCACTCAAA TTTGTAAAAA GCAATTCCTC TTATACTATC ATCTTTTTTG

180

TTTTTTAAGG TTTTTGTTGT TGTTTGGTTT TTTGGCAAA TGATCTAAAG AGGCTTTACA TAAGAGACAG AGTCGCTCC		240 281
(2) INFORMATION FOR SEQ ID NO:1326:		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 348 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID N	0:1326:	
GAATTCGGCC TTCATGGCCT ACTATCTTGA ATGTCCAAC AAATCTATGC ACTTCTTTCA CTTGAATTTC TATGCCCTC ICTATCACCA ATTAAGAGAA ATTTAACTTA CACATTTTA CTGAGCTTAT ACAGCACAGA TCAACATTAC AATCAATTT ICAGTGAACA TTGTTCGGCT GACCTAATTT TTTGAAATA ATTGAGCTAT CTGTACAACC CCCAACCTAC CTAAGCAAA	A TAGACTTTAC AGGCACATGT C AACTTATACA TGCAATTTGG A CTGCCATGTT AAAAAAAAAA A GTTGGCCATC AGTGTAATTG	60 120 180 240 300 348
(2) INFORMATION FOR SEQ ID NO:1327:		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 680 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO	0:1327:	
GAATTCGGCC TTCATGGCCT ACACGGACTT ACATCCTCA CAAACTACG AACGCACTCA CAGTCGCATC ATAATCCTC	T TACTATTCTG CCTAGCAAAC	60 20
TTCCCACTAA TAGCTTTTTG ATGACTTCTA GCAAGCCTC	CTARCTTCCC CTTRCCCCCC	80
ACTATTAACC TACTGGGAGA ACTCTCTGTG CTAGTAACC	A COMPONECTE ATCARGEATE	40
ACTCTCCTAC TTACAGGACT CAACATACTA GTCACAGCC	C TATACTCCCT CTACATATTT	100
ACCACTAACC CTCGAGACCA CTTCATATAA ATACTTATT	T ATTTCCTATT TCCCCTGACT	60
AGAAATATAA GCTCCATGGT AGCAGAGATT CTGATTGCT	G CCTACTCTAT CCCCAGCTCC 4	20
TATACTAGGC ACCATGAGTA CATGATCAGA AAATATTCA	T GGAAAAAAT ACATAAATGT	80
ATAACAATCT TCATTTGTGA GTAAGAAGAT GGGCTCTGG	A ATTCACACTCC CTCCATTCAA	40
ATCCTAACTT CATCACTTAC TAGTCATGGG ATATTTTAC	C TCAGTTTCAC TTTTTCAAAA 6	00
GAAGATAAT AATGTCTACC TTATAGTATT GTGAGGATT	A ACTCAATTAA TCCACAAAA 6	60
ATTAGGCCAT GAAGGCCGAA		80
(2) INFORMATION FOR SEQ ID NO:1328:		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 499 base pairs	•	
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double		

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

(ii) MOLECULE TYPE: cDNA

TGTCATTTAC CACTAGATTG TCCACCTGAG TTACAATAGA CTCGGATGCT GACTGAAGAT	CCGCGTCGAC TGTCACTGAG CTTCTTGGCT CTCTTATATA TATTCTTTAT TTTGGTGGAC GAAGACAAGG AGACAGTTGG AATTGGGCCT GGGŢCCTCAG GCAAGACATA TTGGATATTT GGAACTCCTC CTTAAATTGA TGTTTGTGAA TTGCCAGAGC AGACTACTAA AGCTTTACCT GTGAGATTT TGTTTACAGA CTGTCCAGTG TAGGTGGAGA AACTTCTCTG GCTGAAATGA TTGCAACCCT TGTGAAAGA AGTTTGGCTT TTTGGCAACC AGGCTTTTTC GAGTATTCAA ACTCAGGGTA AAAAGAAATG GAAAAAAAACA TGTTGTCTCC CATCTTTTGT TTTATCATTG GCTGCATTAT ATCTGGAATT ACTCTTCTG CTATATTTAG AAGCTCGAG	60 120 180 240 300 360 420 480 499
(2) INFORMA	ATION FOR SEQ ID NO:1329:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1329:	
TTATACTTCT	CCGCGTCGAC CGCTGCCAAA TGCTTCACTC CTATCTACTC TCCCGATTCC GAACCTCCTC AACAGAAATC TTGCTCTCTC CCTAAATCCT CAGTGCAACA AAAACTAAAT GATCCCTCCT CAGCCAGACA GAAAACTCTC AACATATCAA GCGTGGACAG	60 120 180 200
(2) INFORMA	ATION FOR SEQ ID NO:1330:	
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1330:	
TGATGACAGG	AAAGAGGCCT ACAGTCTTTT TAGGCATGTT TTTTTTTTTT	60 120 158
(2) INFORMA	ATION FOR SEQ ID NO:1331:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 552 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1331:	
GAATTCGCGG	CCGCGTCGAC GATCATGAAG CGCTCGGTAG CCGTCTGGCT CTTGGTCGGG	60
CTCAGCCTCG	GTGTCCCCCA GTTCGGCAAA GGTGATATTT GTGATCCCAA TCCATGTGAA	120
	TCTGTTTGCC AGGATTGGCT GATGGTTCCT TTTCCTGTGA GTGTCCAGAT ACCCCAACTG TTCTAGTGTT GTGGAGGTTG CATCAGATGA AGAAGAACCA	180 240
	-	

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ACTTCAGCAG GTCCCTGCAC TCCTAATCCA TGCCATAATG GAGGAACCTG TGAAATAAGT 300
GAAGCATACC GAGGGGATAC ATTCATAGGC TATGTTTGTA AATGTCCCCG AGGATTTAAT 360
GGGATTCACT GTCAGCACAA CATAAATGAA TGCGAAGTTG AGCCTTGCAA AAATGGTGGA 420
ATATGTACAG ATCTTGTTGC TAACTATTCC TGTGAGTGCC CAGGCGAATT TATGGGAAGA 480
AATTGTCAAT ACAAATGCTC AGGCCCACTG GGAATTGAAG GTGGAATTAT ATCAAACCAG 540
CAAATCCTCG AG 552
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- (2) INFORMATION FOR SEQ ID NO:1332:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 760 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGCGG	CCGCGTCGAC	CTCAGAACTA	TTTAAATTTA	GTTAAATTAC	TATTATATTT	60
TATAGTAAAT	ATTGGTCCAC	TTTATAGCTC	AGAACCTAAA	AAGAGAATAT	GTACCCAAAC	120
TTCTCTATGT	TTACAACCAA	CCCAGAGTTT	AAGATTCTGA	ATTGTGCTTT	GTTTTGTTAA	180
AAATTTAACC	AAGGGTCAGG	CACAGAGGCT	CATGCCTATA	ATCCCAGCGC	TTTGGGAGGC	240
CGAGGCGGGT	GGATCACTTG	AGTTCAGGAG	TTCGGGACCA	GCCTGGCCGG	CATGGTGAAA	300
CCCCGTCTCT	ACTAAAAATA	CAAAAGTTAG	CCGGGTGTGG	TGGCATGTGC	CTGTGGTCCC	360
AGCTGCTTGG	GAGGCTGAGG	CAGGATAATC	NCTTGAACCC	AGGAGGCAGA	GGTTGCANTT	420
GCAGTGAGCC	GGGATTGTGC	CATTGTACTC	CAGCCTAGGC	AACAAGAGCG	AAACTCTGTC	480
AAAAAAATT	AAAAGAAAAA	AAAATTAACC	AAGGTTCTCC	TTTCTCTAAA	TCTAGCAATT	540
TGTTCTATTT	TTCAGAAATA	AACTTAATAA	TTTTAATACA	GATTTTAGCT	TTGGCTTTTT	600
TCTTACTTTT	TAGTTTGCAA	ATTATTTTAT	GGTATTCCTA	CAAAGTAGAT	ACAAATTTGC	660
ATTCAGAATG	CACCTTTTGT	TTTTCTGGGT	TTTTTTTTTT	GTTTGTTTGT	TTTTTCAGAA	720
AACTCATGGA	AAAGTACACT	GTTCACCTCA	GCATCTCGAG			760

- (2) INFORMATION FOR SEQ ID NO:1333:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 579 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCGGCC	AAAGAGGCCT	ANAACTGGGT	AAGGAGCAAA	AAAAGTGACA	GAGGCCAGGC	60
GCGGTGGCTC	ATGCCTACAA	TCCCAGCACT	CTGGCCAAAT	ATTTGATTTT	AAATTCCCAT	120
		AAAAATCTGG				180
GACACAATTT	AACATCCATA	CAGGCCTGTG	AACTTCATGC	AGAGAACAAA	CAAACAAACA	240
		CTCATTTCAG				300
CAGTTCTAGA	AGCTGCTTTT	ACCTCTAGAC	TCGGAGGGGC	AGGCCCTGTC	ACCGAAGGGA	360
GGAAAACTCT	TCTTGGCTGT	CAGCCCGGAT	TGAAGCCACT	TCGCTTCCCC	TGGCCCCAGC	420
TTTCCTGCAC	TCTTTTCACC	GTGTCTGACA	CAGGGCAAAC	CACCAACCAC	TCAAATGAGC	480
AAACAATTCC	AGAAAAAAGA	ATCCGAGATA	AAGAATAACC	AACTAGGAGT	CTTTCCATTG	540
TAGCCTAAAC	CGTCGATTGA	ATTCTAGACC	TGCCTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:1334:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 521 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GAATTCGCGG	CCGCGTCGAC	CAACAAGGGC	AAAGGCCTTG	AGACACAAAC	CAACTGTGTG	60
GGTGTAAAGG	TAAGAAAGGC	CAGTGAGGCC	AGCATGATGA	ACTGGGGGAG	CATGGTGGCT	120
GATTTGGTCA	GGAAGGGAAC	AGAAACCAGA	CCACTTGGGA	TCTTCTAGCC	AGAGTAAAGA	180
GACTGAGTTT	ATTCCTATTG	TAATGGGGAG	CTATTCAGAG	AGGTTAATCA	TGGAAGTGAT	240
GTGACCTGAG	CTACACTCTT	AAAAGATGCC	TCTGGCTGCT	GTGTGGAGAA	TGAACCATGG	300
				GCAATAATTT		360
AGTGATCATC	TTGACTAGGG	TGGTGGTGGT	AGAGGAGGTG	AGTGGTGGTC	AGGACTGAGA	420
GGAGCCAACA	GAATTTGCTG	GCTTGCTTGG	ATGTGGGTGA	TGAGGCAAAC	TGAGAATCCA	480
AGATGGCACC	AAGGCTTATA	CCCTGAGCAA	CTGAACTCGA	G		521

- (2) INFORMATION FOR SEQ ID NO:1335:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 775 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAAATTC	3CG	GCCGCGTCGA	CGCTCTTGAG	TGAGACCCAA	CAAGCTGCTT	TTCACCAAAT	60
TGCAATG	<b>GA</b> G	CCTTTCGAAA	TCAATGTTCC	AAAGCCCAAG	AGGAGAAATG	GGGTGAACTT	120
CTCCCTAC	GCT	${\tt GTGGTGGTCA}$	TCTACCTGAT	CCTGCTCACC	GCTGGCGCTG	GGCTGCTGGT	180
			AGGCGCGGCT				240
CACTCTG	GCG	GCTGAGGACA	GCCCGTCCTT	CTCCTTGCTG	CAGTCAGCAC	ACCCTGGAGA	300
ACACCTG	GCT	CAGGGTGCAT	CGAGGCTGCA	AGTCCTGCAG	GCCCAACTCA	CCTGGGTCCG	360
CGTCAGC	CAT	GAGCACTTGC	TGCAGCGGGT	AGACAACTTC	ACTCAGAACC	CAGGGATGTT	420
CAGAATC	AAA	GGTGAACAAG	GCGCCCCAGG	TCTTCAAGGT	CACAAGGGGG	CCATGGGCAT	480
GCCTGGT	GCC	CCTGGCCCGC	CGGGACCACC	TGCTGAGAAG	GGAGCCAAGG	GGGCTATGGG	540
ACGAGATO	GGA	GCAACAGGCC	CCTCGGGACC	CCAAGGCCCA	CCGGGAGTCA	AGGGAGAGGC	600
GGGCCTCC	CAA	GGACCCCAGG	GTGCTCCAGG	GAAGCAAGGA	GCCACTGGCA	CCCCAGGACC	660
CCAAGGAG	GAG	AAGGGCAGCA	AAGGCGATGG	GGGTCTCATT	GGCCCAAAAG	GGGAAACTGG	720
AACTAAGO	GGA	GAGAAAGGAG	ACCTGGGTCT	CCCAGGAAGC	AAACAGAGAC	TCGAG	775

- (2) INFORMATION FOR SEQ ID NO:1336:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 155 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GTAGATTTAG	ATGTACAGAT	AGAGGTATGA	TTTTTTTAAA	AGGCACCTCA	GTATGGGTAA	60
TGTTATCTTT	CTTGTGTTTC	AGTGCACACA	CATACACACA	CACCATAGAT	GCAAAGTGTG	120
TAGAAAATGT	ATTGAAGGAT	ACCCAGGTAC	TCGAG			155

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:	
GAATTCGCGG CCGCGTCGAC ATTCATGCAA ATAAATATAT TACTAAAATG CTACCTGTTT CTTTTTCCTC TTTTTCTTCC AGTTTTAGTT TATGAGATTG GGTCTTGCTA TGCTGCCCAT GCTAGGCATG AACTCGAG	60 120 138
(2) INFORMATION FOR SEQ ID NO:1338:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 249 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:	
GAATTCGCGG CCGCGTCGAC CTAAACCGTC AATTCTTCCC ATCTTAGGTT TCTCTCCTCG GAAGCCTTCT CTTTAGAATC GAACATTTC TCTTCTGGCT TTGTTCGGAT GGTTTCTGGT CTGTTTCTTT CTTGCTCCCT CGTGGCTTTC ACTTCTGTT TCTTTCCCAG AATGACGGTC CTCTCATTTG ACCGTGTGCT TTCCGAAGCA CCTGCTGCCA CCTTGTCTCG GCGATCCCGG TTACTCGAG	180
(2) INFORMATION FOR SEQ ID NO:1339:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 108 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:	
GAATTCGCGG CCGCGTCGAC AAAACAACAC ATTTTAAAGA TTACGTGCTT CTTGGTACAG GTTTGTGAAT GACAGTTTAT CGTCATGCTG TTAGTGTGCA TCCTCGAG	60 108
(2) INFORMATION FOR SEQ ID NO:1340:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 652 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
536	

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GAATTCGGCC	AAAGAGGCCT	AATAGAAGGC	ATTCCATATT	TGTTCAATGA	ATTAACAAAT	60
GTTTTTCATA	TTAATTGTTC	TGATTTTTAC	CTCCTTAGGC	CAGCCTTTAT	TATTGCCATA	120
TAAGCCTTCT	GGTAGTACCA	AGATGTATTA	TGTTCCACAA	TTAAGACAAA	TTCCTCCATC	180
TCCGGATTCC	AAATCAGATA	CCACCGTTGA	AAGCTCCCAT	TCAGGATCCA	ATGATGCCAT	240
TGCTCCAGAC	TTCCCAGCTC	AGGTGCTAGG	CACAAGAGAT	GATGACCTCT	CAGCCACTGT	300
TAACATTAAA	CATAAAGAAG	GAATCTACAG	TAAGAGGGTA	GTGACTAAGG	CATCCTTGCC	360
AGTGGGAGAA	AAACCCTTGC	AGAATGAAAA	TGCAGATGCC	TCAGTTCAAG	TGCTAATCAC	420
TGGGGATGAG	AACCTCTCAG	ACAAAAAACA	GCAAGAGATT	CACAGTACAA	GGGCAGTGAC	480
			TTTGCAGAAA			540
TGCTGCTGCT	GCAGAGCACT	CAGCTCAAGT	AGGAGACCCA	GAAATGAAGA	ACTTGCCAGA	600
CACTAAAGCC	ATTACACAGA	AAGAGGAGAT	CCATAGGAAG	AACGACCTCG	AG	652

## (2) INFORMATION FOR SEQ ID NO:1341:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) Lingth: 817 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

GAATTCGGCC	AAAGAGGCCT	ACGTGCCATT	TCTCTTCCAC	TATGAGAGGA	CCGATTGTAT	60
TGCACATTTG	TCTGGCTTTC	TGTAGCCTTC	TGCTTTTCAG	CGTTGCCACA	CAATGTCTGG	120
CCTTCCCCAA			TAGCACATGT			180
			ATAGCTCTGT			240
			TGTCAGCAGT			300
			AGCCTGGACA			360
AACGCCCTGG	TGTTTCCACA	CCTACTGAGT	CAGGTGTNCC	TCAGCTGAAG	AAGTATTTGG	420
			AAGTGGANTT			480
TGCTATCACT	GCGACTCCTT	CTCTGACTGT	TGATGAAAAG	GAGGAACTCC	TTACAAGCAC	540
TAACTTTCAG	CCCATTGTAG	AAGAGATCAC	AGAAACCACA	AAAGGTTTTC	TGAAGTATAT	600-
			GGAAGGAGTT			660
			CACCAATCCA			720
AGACACAGAC	CACAGGACAA	CTTCTTTTCC	TGGTGCTGAG	TCCACAGCAG	GCAGTGAGCC	780
		AGGAGAAGCA				817

- (2) INFORMATION FOR SEQ ID NO:1342:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

GAATTCGGCC	AAAGAGGCCT	AGCACCATGG	ACAACCCACA	GGCTCTGCCA	CTCTTCCTAC	60
TCCTGGGGAT	CCTCACCCTC	AGAGCCTCTT	CTGGACTTCA	GCAAACCAAC	TTCTCCTCTG	120
CCTTCTCTTC	AGACTCAAAG	AGCTCTTCCC	AGGGGCTGGG	TGTGGAAGTT	CCCTCCATCA	180
AACCTCCCAG	CTGGAAAGTT	CCAGATCAGT	TCCTGGATTC	AAAAGCCTCT	GCTGGAATCT	240
CTGATTCCAG	CTGGTTTCCT	GAGGCCCTGA	GTTCCAACAT	GTCTGGGTCC	TTCTGGTCAA	300
ATGTTTCTGC	TGAGGGCCAA	GATTTGAGCC	CGGTTTCCCC	CTTCTCTGAA	ACCCCTGGTT	360

CTGAAGTATT TCCTGATATT TCGGATCCTC AAGTTCCTGC CAAAGACCCC AAGCCTTCCT TCACTGTTAA GACCCCAGCT TCAAACATTT CTACTCAAGT CTCCCATCTC CTCGAG 476

- (2) INFORMATION FOR SEQ ID NO:1343:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 726 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

GAATTCGCGG CCGCGTCGAC	CAGGAAATGA	AGACATTGCC	TGCCATGCTT	GGAACTGGGA	60
AATTATTTTG GGTCTTCTTC	TTAATCCCAT	ATCTGGACAT	CTGGAACATC	CATGGGAAAG	120
AATCATGTGA TGTACAGCTT	TATATAAAGA	GACAATCTGA	ACACTCCATC	TTAGCAGGAG	180
ATCCCTTTGA ACTAGAATGC	CCTGTGAAAT	ACTGTGCTAA	CAGGCCTCAT	GTGACTTGGT	240
GCAAGCTCAA TGGAACAACA	TGTGTAAAAC	TTGAAGATAG	ACAAACAAGT	TGGAAGGAAG	300
AGAAGAACAT TTCATTTTTC	ATTCTACATT	TTGAACCAGT	GCTTCCTAAT	GACAATGGGN	360
TCATACCGCT GTTCTGCAAA	TTTTCAGTCT	AATCTCATTG	AAAGCCACTC	AACAACTCTT	420
TATGTGACAG GAAAGCAAAA					480
GATGCTCACC TTAAGAGTGA					540
CTATCAGAAA CTGGAATTTA	TGATAATGAC	CCTGACCTTT	GTTTCAGGAT	GCAGGAAGGG	600
TCTGAAGTTT ATTCTAATCC	ATGCCTGGAA	GAAAACAAAC	CAGGCATTGT	TTATGCTTCC	660
CTGAACCATT CTGTCATTGG	ACTGAACTCA	AGACTGGCAA	GAAATGTAAA	AGAAGCACCA	720
CTCGAG					726

- (2) INFORMATION FOR SEQ ID NO:1344:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 484 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

GAATTCGGCC	AAAGAGGCCT	AGGGACAGCA	ATCAAGTTCT	AATGGTGCTC	ACTTTTTAGG	60
TCACCTTCAT	CACAGACTGC	TCCAAAGGCA	GAGCAATGTG	GAACGAACCA	GCACATTTAC	120
TTAAGATCAA	AGTATGATAC	ATCTCTTTGA	GCGCCTCACT	TCACAATAGG	GATCCATTCA	180
TTGGCTTCCA	${\tt GATGATGTTC}$	ACAGTTCATG	TAACACTGAT	ACTGACTTTG	TTCCTTATGT	240
TTAGACAGCT	TCTCTGTCTA	TACTTCTCAG	AAACACCATC	AACCAGAACA	GAGCCACTTA	300
TTATCCACAA	AAGTTGCATC	AACCAGCTTA	CCTTCTGGGA	GGGATGGATG	GTACCCAAAT	360
ACTCAAACTG	AATCCTATAG	TGTGGAGCAA	CCAAACAGAA	AACAGTCCAA	GGATTCAGGA	420
AATGGTAAAA	ACATTTTAAA	TCTAAATAGT	AGTTATTTTC	ATTTTGTTCT	GCTCCCACCT	480
CGAG						484

- (2) INFORMATION FOR SEQ ID NO:1345:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 125 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCGCGG	CCGCGTCGAC	ATGAGTTTAA	TTTTTTTTT	TTTTTTTACA	CTTTACATAG	60
AAATAGGATT	ATGTGGGCTG	GGCACAGGGA	CTGACGCCTG	TAATCCCAGC	ACGTGGAGGC	120
TCGAG						125

- (2) INFORMATION FOR SEQ ID NO:1346:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 760 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTCGGCC	AAAGAGGCCT	AGACCCAGCG	TACATACTGA	ATGATCTCTA	CATCTCAGAC	60
TACTGTGTGT	GGATTCAGAA	AGTCAAATCC	AAAAAGTTGG	CAGCTCTTGC	AGAAGCCTTA	120
AAGGAAGTCT	CCCTTACAAA	GGCCCAGCTG	GGGTTAGAAC	TGGAAGAACT	AGAAGCAGCA	180
GCACTGCTTG	TCCAGGAGGA	AGAAACTGCA	TTAAAAGCAG	CCCATTCAGT	TTCTGGGCAG	240
CAGACACTTT	GCTCCAGCTC	TGAGGCAAGT	GATTCGGAGG	ACTCAGACAG	CAGCGTGTCA	300
TCTGGAAACG	AAGACTCAGG	CTCAGATTCA	GAACAAGATG	AACTCAAAGA	TAGTCCATCT	360
GAGACAGTCA	GTTCTTTGCA	AGGTCCCTTT	CTTGAAGAAA	GCAGTGCCTT	TCTTATTGTT	420
GATGGTGGAG	TACGCAGAAA	CACAGCCATC	CAGGAGTCTG	ATGCCAGTCA	GGGAAAGCCA	480
CTTGCCTCTT	CCTGGCCTCT	TGGAGTGTCT	GGGCCTCTGA	TAGAGGAGCT	TGGGGAACAA	540
CTGAAGACTA	CAGTTCAGGT	TTCTGAACCC	AAGGGCACCA	CTGCTGTAAA	CCGCAGCAAT	600
ATTCAGGAGA	GAGACGGCTG	TCAGACACCA	AATAATTGAC	TCTTAGGTGG	TTTTATTCAT	660
TGTTGAGAAA	TATGGTAGAT	TGGGTTTCAT	TTACCGAATG	AGAATTCTTC	ATTTTCACTT	720
TGTAATTTTT	CTTAGTATAT	AGTCAGCCCA	CACTCTCGAG			760

- (2) INFORMATION FOR SEQ ID NO:1347:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 352 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTCGCGG	CCGCGTCGAC	CATTTCGAGA	GTCCGTCTTG	TAAATGTTTG	GCACTTTGCT	60
ACTTTATTGC	TTCTTTCTGG	CGACAGTTCC	AGCACTCGCC	GAGACCGGCG	GAGAAAGGCA	120
GCTGAGCCCG	GAGAAGAGCG	AAATATGGGG	ACCCGGGCTA	AAAGCAGACG	TCGTCCTTCC	180
CGCCCGCTAT	TTCTATATTC	AGGCAGTGGA	TACATCAGGG	AATAAATTCA	CATCTTCTCC	240
AGGCGAAAAG	GTCTTCCAGG	TGAAAGTCTC	AGCACCAGAG	GAGCAATTCA	CTAGAGTTGG	300
AGTCCAGGTT	TTAGACCGAA	AAGATGGGTC	CTTCATAGTA	AGATACCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:1348:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 251 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCGCGG	CCGCGTCGAC	TCTAGGTTTT	CTGATTTTGA	TGGTAATATG	GTATTCTGGG	60
AAATATCTGT	CCAAATTATC	CTGATCTCTG	AACTCCTGCT	GTTGAGGTCA	GTCACTTCAC	120
ACAATACCAT	GATGACAGCT	TTATCAAGCC	AGATGCTTAG	TCAGAGCTTT	CCAAGACCCA	180
GCTTTGGTTT	TATCAGCAAA	ATCCATCCTT	CCCACCCCC	ATACACACGC	CAGTTTGAGA	240
CTCCTCTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:1349:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 309 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCGCGG	CCGCGTCGAC	CTAAACCGTC	GATTGAATTC	TGGACCTCCT	GTGCAAGAAC	60
ATGAACCATC	TGTGGTTCTT	CCTTCTCCTG	GTGGCAGCTC	CCAGATGGGT	CCTGTCCCAG	120
					GTCCCTCAGT	180
TGTACTGTCT	CTCTCGGCGC	CATGAATGGT	CATTACTGGA	CCTGGATCCG	GCAGACCCCG	240
GGAGGGAGAC	TGGAGTGGAT	TGGATCTGTC	TATTATAATG	GAAACAGAGT	GTATCACCCC	300
TCCCTCGAG						309

- (2) INFORMATION FOR SEQ ID NO:1350:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 553 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

	GAATTCGCGG	CCGCGTCGAC	AATTACTACC	ATTGTTAAGT	GTCTCTTTAA	CTAAACTCAT	60
	TGTTTAAAAG	TTTTCTCCCT	CTCTGTTTCT	AAATCCAAAT	TTCTGCTCTG	GAATATATGT	120
	TAGAAGAGAT	ACATTTGTTG	GAATGTTTGC	ATTTCTTTTA	TGAAATGCAG	TATCTTTTGG	180
,	GGAATATTAT	GTAAATGAAA	TACCAATTAT	TTTAAAAGAG	CATTTTTGTG	TGACATAGTG	240
	CTTTCACAAA	CTAAAACTGG	AATTTCTTTC	TTTAGTCTAT	CTATATCTTT	TGAAAATGTT	300
	GACACAGCTA	AGAAGAAGCT	GCCTGTTCAT	ATCTTAGATG	GTCTGACCCT	CAGCTACAAG	360
			TATGAACCGT				420
	ATTGGTTACT	TTCTAATTTT	GTTTTTGTTT	CATAGGTCCC	ATGGCCCGTG	GACATTGTTA	480
	TAAGTTTGGA	ATGTCAAAAA	ATTTATAATC	AAGTGTTTCT	TCTCTTATTG	CAAATAAAGT	540
	GGGCATCCTC						553

- (2) INFORMATION FOR SEQ ID NO:1351:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 209 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

GAATTCGCGG	CCGCGTCGAC	TTTATTTCAG	TGGATTCTCT	AGGATTTTCT	ATATAAAAGA	60
TGTCATCTGA	TAGAGTAGTT	TACTTCTTCG	TTTCCAACCT	GAATGGCTTT	TATTTCATCT	120
CTTTCCTAAC	TGTCCTGGCT	AGAACCTCCT	TTACCACGTT	GAATGGAAGT	GGCAAGAATG	180
AACATCCTTG	TCTTGTTTCT	GATTTCGAG				209

- (2) INFORMATION FOR SEQ ID NO:1352:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 525 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

GAATTCGCGG CCGCGTCGAC	AATGGCTTTT	CTTCCTTCCT	GGGTTTGTGT	ACTAGTTGGT	60
TCCTTTCTG CTTCCTTAGC	AGGGACTTCC	AATCTCTCAG	AGACAGAGCC	CCCTCTGTGG	120
AAGGAGAGTC CTGGTCAGCT	CAGTGACTAC	${\tt AGGGTGGAGA}$	ACAGCATGTA	CATTATTAAT	180
CCCTGGGTAT ACCTTGAGAG	AATGGGGATG	TATAAAATCA	TATTGAATCA	GACAGCCAGG	240
TATTTTGCAA AATTTGCACC	AGATAATGAA	CAGAATATTT	TATGGGGGTT	GCCTCTGCAG	300
TATGGCTGGC AATATAGGAC	AGGCAGATTA	GCTGATCCAA	CCCGAAGGAC	AAACTGTGGC	360
TATGAATCTG GAGATCATAT	GTGCATCTCT	GTGGACAGTT	GGTGGGCTGA	TTTGAATTAT	420
TTTCTGTCTT CATTACCCTT	TCTTGCTGCG	GTTGATTCTG	GTGTAATGGG	GATATCATCA	480
GACCAAGTCA GGCTTTTGCC	CCCACCCAAG	AATGAGAGGC	TCGAG		525

- (2) INFORMATION FOR SEQ ID NO:1353:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTCGGCC TTCATC	GGCCT AGGCTCCTAA AA	ATAAATAAT CCACATAATT	GTAAATGAAA 60	t
CACATCAAGG ATTTGA	AGTTA ATAGCCTCTG AG	GCAGCATTA ATATAGCCAT	TAGACTGGAG 120	ŀ
TATTTGTTAT CAAGAG	GGGCC AGAGAACCCA CC	CGCTAAAGC CGTAGGGTGG	GAGGAACCCT 180	)
GGATTGCAGC TACATO	GGCTT ATGTAGGGAG TT	TTGTAACAG CCCCAAGCTG	AAACCAGCTT 240	)
CTACACCCAT GACTGT	TTGAG TGATTGAATT CT	PAGACCTGC CTCGAG	286	j

- (2) INFORMATION FOR SEQ ID NO:1354:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 572 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCGCGG	CCGCGTCGAC	CAACAAGAGC	ACTGGCCAAG	TCAGCTTCTT	CTGAGAGAGT	60
				CCTCTTACTC		120
CTTCCAACCT	TGCCATTGCA	ATAAAAAAGG	AAAAGAGGCC	TCCTCAGACA	CTCTCAAGAG	180
GATGGGGAGA	TGACATCACT	TGGGTACAAA	CTTATGAAGA	AGGTCTCTTT	TATGCTCAAA	240
AAAGTAAGAA	GCCATTAATG	GTTATTCATC	ACCTGGAGGA	TTGTCAATAC	TCTCAAGCAC	300
TAAAGAAAGT	ATTTGCCCAA	AATGAAGAAA	TACAAGAAAT	GGCTCAGAAT	AAGTTCATCA	360
TGCTAAACCT	TATGCATGAA	ACCACTGATA	AGAATTTATC	ACCTGATGGG	CAATATGTGC	420
CTAGAATCAT	GTTTGTAGAC	CCTTCTTTAA	CAGTTAGAGC	TGACATAGCT	GGAAGATACT	480
CTAACAGATT	GTACACATAT	GAGCCTCGGG	ATTTACCCCT	ATTGATAGAA	AACATGAAGA	540
AAGCATTAAG	ACTTATTCAG	TCAGAACTCG	AG			572

- (2) INFORMATION FOR SEQ ID NO:1355:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 269 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCGCGG CCGCGTCGAC	TGAAAAGTAG	GTTTTTGAAG	AGATATATTC	GAAATATATT	60
TTTTCACTTG AAAAAAGTAA	AAATTTTTTT	CAAAAGCAAA	TAATTCAACT	CTAAAATTAT	120
ACTATTTCAA CATTCTCATT	TATGTGAAAG	CATGTGATAA	ATTGTTGCTG	CGTCAGAGAT	180
ATGAGAAACT CCTTTGCATT	AGGTGGGCAT	TATTCATAGA	CTTCTACATG	AAAGAGAAGA	240
GAAATAAAAG ATGCACCAGG			_		269

- (2) INFORMATION FOR SEQ ID NO:1356:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 713 base pairs
      - (B) TYPE: nucleic acid
      - (C) STRANDEDNESS: double
      - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCGCGG	CCGCGTCGAA	CCCAGCAAAA	TGGGGATCTC	CACAGTCATC	CTTGAAATGT	60
GTCTTTTATG	GGGACAAGTT	CTATCTACAG	GTGGGTGGAT	CCCAAGGACT	ACAGACTACG	120
	TCCCTCGGAG			AGCAGAAGGT		180
	GACCCTGGAG					240
	AACTGTAGCA					300
	AGGATCTGAT					360
	AGTGGAGATC					420
	TGATGCCAAC					480
	TGCCTGGTTT					540
	CGAATCCTAC					600
	TGAAGATGCT					660
GGCCAGAAAG	TTGGCCTGTC	AGGATATCAC	CACCTGTACC	CACTAGACTC	GAG	713

- (2) INFORMATION FOR SEQ ID NO:1357:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 925 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GAATTCGGCC	AAAGAGGCCT	AGAATAATGC	ATATACTGCC	ATGTCAGATT	CCTACTTACC	60
CAGTTACTAC	AGTCCCTCCA	TTGGCTTCTC	CTATTCTTTG	GGTGAAGCTG	CTTGGTCTAC	120
				CAGCTGAGCA		180
CCACTTCCTA	CCAGATGCAA	TGTTTGGGCA	ACCAGGAGCC	CTAGGTAGCA	CTCCATTTCT	240
TGGTCAGCAT	GGTTTTAATT	TCTTTCCCAG	TGGGATTGAC	TTCTCAGCAT	GGGGAAATAA	300
				AGCAATTATG		360
TAGCTCCTTA	GGTGGAGCCA	TGATTGATGG	ACAGTCAGCT	TTTGCCAATG	AGACCCTCAA	420
TAAGGCTCCT	GGCATGAATA	CTATAGACCA	AGGGATGGCA	NCACTGAAGT	TGGGTAGCAC	480
AGAAGTTGCA	AGCAATGTTC	CAAAAGTTGT	AGGTTCTGCT	GTTGGTAGCG	GGTCCATTAC	540
TAGTAACATC	GTGGCTTCCA	ATAGTTTGCC	TCCAGCCACC	ATTGCTCCTC	CAAAACCAGC	600
ATCTTGGGCT	GATATTGCTA	GCAAGCCTGC	AAAACAGCAA	CCTAAACTGA	AGACCAAGAA	660
TGGCATTGCA	GGGTCAAGTC	TTCCGCCACC	CCCGATAAAG	CATAACATGG	ATATTGGAAC	720
TTGGGATAAC	AAGGGTCCCG	TTGCAAAAGC	CCCCTCACAG	GCTTTGGTTC	AGAATATAGG	780
TCAGCCAACC	CAGGGGTCTC	CTCAGCCTGT	AGGTCAGCAG	GCTAACAATA	GCCCACCAGT	840
GGCTCAGGCA	TCAGTAGGGC	AACAGACACA	GCCATTGCCT	CCACCTCCAC	CACAGCCTGC	900
	GTCCAGCAAC					925

- (2) INFORMATION FOR SEQ ID NO:1358:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 172 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

GAATTCGCGG CC	GCGTCGAC AAATA	AACCC AGCAACTTC	A TTCATTTGCC	TTATGTTTAT	60
TGAGGGCCTG CT	AGTGCTGG GCACT	GTTCT AGGCCCTGG	G AATTTATTAG	TGAGCAAAAC	120
AGCAAAATCT CI	GTCCTCAT GGAGC	TCACA ATATAGTAG	G GAACGACTCG	AG	172

- (2) INFORMATION FOR SEQ ID NO:1359:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 770 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

GAATTCGGCC	AAAGAGGCCT	AAGTCAGTGA	GGTGGAGTCC	GTTTTTGAGG	TCACGCGGCT	60
AGTAATTGGA	GCCTGGTTTA	GAACCAAGTC	AGTCTCATTC	CAGAATCCAG	AACCAGTGAT	120
TTGTAACTGA	TGCACTTGTC	TCCAAAGGGA	TCCAGCACTG	GGTTTTCTCA	TTTTTAATGC	180
ATCCATTCCT	TAAAGCCTCT	GTTCACAGTC	ACAAGGTGTA	CTTTTTAAAG	GAACACAGCA	240
CACAAATGTG	ACCGCTAGTG	GACAGCAGTG	GCAGCCCAGT	TGGATGGCAG	AGCCTGGCAT	300

GCCGACTGGG	ACAGAAGCCC	CAGCACACGG	TGTGATGATG	GCGTCTCCAG	GCTGACCTCC	360
ATGGCCTCAG	GAATCAAAGT	CCTCGGTCTC	TTTCACGCGG	GGTTCAGAAA	GAAAACTCGG	420
CTATCTTACA	TCTCCTCTCC	CCTGTTTATT	TGACTAAAGT	GAAGTTCATG	TGGCTTGAGC	480
CTCGTTTCCT	GGGGAAATCA	GCCTGGCTTA	GGATTCCATT	GTCTTCTGGG	ACTGGGAAGA	540
TGTGGAAGGC	TGACCTCACG	CCCAGCTGAA	GGTCACCTTC	CCAGACTCTG	AGCTCGGCTG	600
CCTTCTGCAT	CGCCACGGCT	GGAGGGCCTG	GCCCAGGCCG	TGGCTGCATG	CTGGCTTTCC	660
ACTGTCTCGG	TGTCCCTGCT	GCCTGTCAGT	AATGTGCCCA	GCACCTTCTG	GTGTCATGTC	720
CCCTCTTGTT	TGTGATTCTT	TTCCTGAGCT	AGTCCATTTT	CTACCTCGAG		770

- (2) INFORMATION FOR SEQ ID NO:1360:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 505 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

GAATTCGGCC A						60
AAATAAATAC A	ATTATCATGG	ACCTGAGGGA	TTTTTACCTG	TTGGCTGCTC	TGATTGCCTG	120
TTTAAGGCTG (	GATTCCGCAA	TAGCTCAAGA	ACTTATTTAC	ACTATTAGAG	AGGAATTGCC	180
TGAAAATGTG (						240
CACAGGGACC A	AGCGCCAGCC	TTGTCTACAG	ACTGGTTTCT	AAAGCTGGGG	ATGCCCCTTT	300
GGTGAAAGTA :	TCCAGCAGCA	CTGGGGAAAT	TTTCACAACC	TCCAACAGAA	TAGACAGAGA	360
AAAACTCTGT (	GCTGGCGCCT	CATATGCTGA	GGAGAATGAG	TGTTTCTTTG	AACTTGAGGT	420
GGTGATCCTC (	CCCAATGATT	TCTTCAGGCT	GATCAAAATA	AAAATAATTG	TCAAGGATAC	480
CAATGATAAT (	GCCCCCAATC	TCGAG				505

- (2) INFORMATION FOR SEQ ID NO:1361:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 553 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

GAATTCGGCC	AAAGAGGCCT	AAATTTGTTC	TCTCCAAACC	AGAAGACCTT	AGGTACAGAT	60
GACCCCAGGG	AGCTGGGACA	GCAGGACAGA	NAGGGGAAGG	GACAGGTCCA	TATATAGGTG	120
TGTCATTGCA	GCCACTGCAA	TGAACATAAC	ATGCAAGAAA	TGTACAGAAT	GTGGTCCAGA	180
ATTGCCCACT	GGTGTCCTGT	GCCCTGGTGG	ACCCCACAGA	GGACTGCCCC	AGGCTTTCAC	240
TTTCCTTCCC	CATGGATTGA	GCAAGCTCCC	AGGGCAGGAT	GGGTGGCCAG	GAGGGGCAGA	300
ACGCTGGCGG	GGACGGGGAA	GCCAAGTGCT	CACAGGACCA	TCCACCACAG	CTGCAGCCAC	360
ACTGCAAGAC	GGCGGGGATG	GGACACACGG	TCTAGTTCTT	AGTTCTGCCT	CCTACAGGCA	420
GCCCCTGCTG	TCACTCCAGA	ACTAATTCTC	TGTGTGCCAC	TCACTCGCGT	GTGTGACACA	480
CAACAGATAC	ACATACATAG	ACACATACGT	ACATCTCCTC	CCCCAATCTC	ACCCTCTCAC	540
CACGCCCCTC	GAG					553

- (2) INFORMATION FOR SEQ ID NO:1362:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 855 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

GAATTCGGCC	AAAGAAGCCT	AGTCAACTTG	ATCCAAACCT	GTTGGTGAAG	CAGCAGACTC	60
CACCATCTCA	GCAGCAGCCA	CTCCATCAGC	CAGCCATGAA	GTCTTTCCTT	GACAATGTCA	120
TGCCCCACAC	TACACCTGAG	CTGCAAAAAG	GGCCATCACC	AATAAATGCT	TTCAGCAACT	180
TCCCTATAGG	CTTGAACTCA	AACTTGAATG	TAAATATGGA	TATGAACAGT	ATTAAAGAGC	240
CACAGTCCAG	ACTAAGGAAG	TGGACGACAG	${\tt TGGACAGCAT}$	TTCTGTGAAC	ACATCTTTGG	300
ATCAAAACTC	CAGCAAACAT	${\tt GGTGCTATTT}$	CAAGTGGTTT	CAGGCTGGAA	GAGTCTCCAT	360
TTGTNCCCTA	TGACTTTATG	AACAGCAGTA	CTTCACCAGC	CAGTCCTCCA	GGTTCAATAG	420
GAGATGGCTG	GCCACGTGCC	AAATCGCCTA	ACGGCTCTAG	CAGTGTTAAT	TGGCCACCAG	480
AATTTCGTCC	CTGGTGAGCC	ATGGAAAGGT	TATCCAAACA	TTGACCCTGA	AACTGACCCT	540
TACGTCACTC	CTGGCAGTGT	CATAAACAAT	CTTTCAATTA	ATACTGTGCG	GGAAGTTGAC	600
CACCTCAGGG	ACAGGAACAG	TGGGTCATCC	TCATCCTTGA	ACACCACGCT	GCCTTCAACT	660
AGTGCCTGGT	CATCCATTCG	TGCCTCCAAC	TACAACGTTC	CCCTCAGCAG	TACAGCACAA	720
AGCACTTCAG	CCAGAAATAG	TGATTCCAAA	TTGACATGGT	CTCCTGGTTC	AGTTACAAAC	780
ACCTCTCTGG	CTCATGAGCT	GTGGAAGGTC	CCTTTGCCAC	CTAAAAACAT	CACTGCTCCG	840
TCCCGCCACC	TCGAG					855

- (2) INFORMATION FOR SEQ ID NO:1363:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 646 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

GAATTCGGCC	AAAGAGGCCT	ACAAAAAGTA	CATAGTAAGA	CTAAGATACC	AAGTTGTATA	60
CTAATATTTT	TCAGGCCTTG	GGCCTCAAAT	ATATATATT	ATATATATA	CTCCAGTGTG	120
AACAGCAATT	CGATGAAATG	TAAAATGTAT	CTTTTTTTTT	TTAAATCACA	CACAAGTATT	180
CATAACCACA	GGGTTCACCA	GAAATCTAAA	GCAAGGAGAC	ACTCACTCAT	ATAGAAATGG	240
AGTTACTCTT	CCACAGATCG	TTCTGATCAA	AGGTTTTGGA	ACAGAAATGA	ATTAATGATT	300
TTTTTGTATA	ATATCCAACA	TGTCCACTAT	CAAATACATT	TAGTATGAAA	AAACAGATGA	360
AGAAAAGGAA	CATACATTAG	GACAAAGTAT	CTGGTTAAAA	TGCTGTTCAT	TTAAATAAAG	420
CCCACTCTCC	TTACTTTAGA	GCTCCTTGGT	GAAATGGAGG	TGAGTTTGAT	GGAGTGCAGT	480
TGATGACCAC	TGAAAAACAC	GAGCCCTTTC	AACAATGTTG	CAACACTGTT	AGTTTTTGGT	540
TTAAACACAC	ACACACACTC	ACAAATGCTA	AGTGTACACT	ACCAAATTCT	GCGGTCAGCT	600
TTTCCAAGAA	CTACTGGGGA	AAGTTTCAAT	GCTGCAAATC	CTCGAG		646

- (2) INFORMATION FOR SEQ ID NO:1364:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 502 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

CATAATTGGA GCTGTCTTGA TTTGGAAAGT TAGAGATCTT TCTGTCTTTT TTGTTTCACT	AGTACAATAA TACGCTGTGT ATGTATGTGT ATATAAAATG AGAATTATGG GCATTTGCAT TAATCAACAA ACTCACATTG AGACAAAACT TAGTTTTACA TTAAAGCCAA GTGTTCCATG TTGCTGTGAA GAATAGCCTC TTTCAAATAC AGTTACTTGG AAACTTGTAA AGGTATTACA TTTTTATATT TAAACACCTA CAATTCCTTG AGTCTGAGCT TGTGGGTGGA ATTCTAAATT TGTATCATAA GTGAAACATT TTGAAAATAT GTATATATAA TATTGTATAT GCAAATTGTG TGTAAAGGGA AAAGGCTTAT TTTTCTTTAT ATTTCTGATA ACTTGTTTTG GCACTTCTCG AG	120 180 240 300 360 420 480 502
(2) INFORM	ATION FOR SEQ ID NO:1365:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1365:	
GGGAAATTAG	TTCATGGCCT ACAGAAGTAC GGGAAGGCGA AGAAAAGAAT AGAGAAGATA AAGATAAAAA CATACTTTTA GAAGAAAAAA GATAAATTTA AACCTGAAAA GAAGAAAAAA GACAAGCTAG GAAACAAAAA GCTAAGGGCA TCGATTGAAT CCTCGAG	
(2) INFORMA	ATION FOR SEQ ID NO:1366:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 314 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1366:	
AAGAGGACGA ATAGGGCGTG CTTGTGATGG	TTCATGGCCT AGGCCTGGGG TGGGACATTT TGTTTGTGAG AAGCCTGGAC GGTGCACACC ATGTCAGTCA CGGATTTGTG AACTCACAGG AGAGGGTTGG TGAACGTGAG CCCGCGGTGT AGACGATGTG AAGCTGTGGT AACGGGTGGG CACCCGCTGC TCGCAGGAGA GGGTTGGATA GGGCATGTGA ACGTGAGCCT CGATGCGAAG TCGTGGTAAC GGGTGGGCTT GTGACGGCAC CCGCTGCTTG CGAG	60 120 180 240 300 314
(2) INFORMA	ATION FOR SEQ ID NO:1367:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 250 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1367:	
	TTCATGGCCT ACTGGTCCCA TTTTTCTATT GCAGTGGTCA TCATTTTTAT TAATATTGTA TCATAAATCT TCATAATATG TGCTTCCAAA GTTTTTTCTA	60 120

(2) INFORMATION FOR SEQ ID NO:1368:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 261 base pairs  (B) TYPE: nucleic acid	
(A) LENGTH: 261 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:	
TACATCAGCT TTACACAGCA GGCAAGTTTC CTGCTCTCTA CAAGTACAGA TGGAACTTGT CTTGTGAATT AACATCCTGA CTACTTTTGT TGATCATCAC ATTTTTCCT CATGAGAGAA ATAATAGTGT TTTATAGGCT CCTGAGAATA GGTTTACTAA AGTCATCGAG ATCTGGGTTC 2	60 120 180 240 261
(2) INFORMATION FOR SEQ ID NO:1369:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 408 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:	
GTTAGGAACC AGATCACAGT GAGGTATAGA GTGAATGAG GTTGAGAATG TAAAGACAAT 1 GGATATAGAT CACTATTTCA GGAAGCTGTT TGTGAGAGGG AGGAGAAAAA TAAAACAGTT 1 ACTGAGCAAT AGGGTGGTTG GTAAGGGGGA GGGATTTTTT TCTGAAAGAT GGGAGAAATT 2 TTAACATACT TAAATTTGAT GGGATAAGCC ATGCACTTAT AGGCATTCAG TCAATATATA 3 TTTCACAAAT GAATGAAGAT AAATTAGGGA GAGGTTAATT GGAGATTTTA GGAGAGAGGG 3	60 20 80 40 60 60
(2) INFORMATION FOR SEQ ID NO:1370:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 369 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:	
GTATAAGGGA CTCGTCCCCG AGGATAAAAC ATTGAGAGAA ATAAAAGTGA CCAGTGGGGC 1 CAAGATCATG GTGGTTGGCT CCACCATCAA TGATGTTTTA GCAGTAAACA CACCCAAAGA 1 IGCTGCGCAG CAGGATGCAA AGGCCGAAGA GAACAAGAAG GAGCCTCTCT GCAGGCAGAA 2	60 20 80 40

GGCCCAGGAG	CGCCTGCCAA	CGGTACCGCT	GTCCGGCATG	TACAATAAAT	CTGGAGGAAA	360
AGTCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:1371:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 443 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

GAATTCGGCC	AAAGAGGCCT	ATTTTTTTT	TTTTTAACTG	ATAGATGGTG	CAGCATGTCT	60
ACATGGTTGT	TTGTTGCTAA	ACTTTATATA	ATGTGTGGTT	TCAATTCAGC	TTGAAAAATA	120
ATCTCACTAC	ATGTAGCAGT	ACATTATATG	TACATTATAT	GTAATGTTAG	TATTTCTGCT	180
TTGAATCCTT	GATATTGCAA	TGGAATTCCT	ACTTTATTAA	ATGTATTTGA	TATGCTAGTT	240
ATTGTGTGCG	ATTTAAACTT	TTTTTGCTTT	CTCCCTNTTT	TTGGTTGTGC	GCTTTCTTTT	300
ACAACAAGCC	TCTAGAAACA	GATAGTTTCT	GAGAATTACT	GAGCTATGTT	TGTAATGCAG	360
ATGTACTTAG	GGAGTATGTA	AAATAATCAT	TTTAACAAAA	GAAATAGATA	TTTAAAATTT	420
AATACTAACT	ATGGGATCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:1372:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 770 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTGCTG GGCGCGGGAC CTGGGGCGGT	60
TAATTTGGAG TGGCCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA	120
GCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTG CACTTCCTCA ACCCTCAGGA	180
AGCTCAGCGG TGGGCAGTCC TAGTCCGAGG TGCCACCGTG GAAGGACAGA ATGGCAGCAA	240
GAGCAACTCA CCACCAGCCT TGGGCCCAGA AGCATGCCCT GTCTCCCTGC CCAGTCCCCC	300
GGAAGCCTCC ACACTCAAGG GCCCTCCACC TGAGGCAGAT CTTCCTAGGA GCCCTGGAAA	360
CTTGACGGAG AGAGAAGAGC TGGCAGGGAG CCTGGCCCGG GCTATTGCAG GTGGAGACGA	420
GAAGGGGGCA GCCCAAGTGG CAGCCGTCCT GGCCCAGCAT CGTGTGGCCC TGAGTGTTCA	480
GCTTCAGGAG GCCTGCTTCC CACCTGGCCC CATCAGGCTG CAGGTCACAC TTGAAGACGC	540
TGCCTCTGCC GCATCCGCCG CGTCCTCTGC ACACGTTGCC CTGCAGGTCC ACCCCCACTG	600
CACTGTTGCA GCTCTCCAGG AGCAGGTGTT CTCAGAGCTC GGTTTCCCGC CAGCCGTGCA	660
ACGCTGGGTC ATCGGACGGT GCCTGTGTGT GCCTGAGCGC AGCCTTGCCT CTTACGGGGT	720
TCGGCAGGAT GGGGACCCTG CTTTCCTCTA CTTGCTGTCA GCTCCTCGAG	770

- (2) INFORMATION FOR SEQ ID NO:1373:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 597 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

GAATTCGGCC	AAAGAGGCCT	AGTCTCTTTG	AAGATCTCTA	GGAACTTGCT	TTATGAATCT	60
TCATGCTCCT	GTGTTGGATG	CATATACATT	TAGGATAGTT	AGGTGTTCTT	TTTGAATTGA	120
AACTTTTACC	ATTATGTAAT	GCCCTTGTTT	GTCTTTTAAA	ATTTTTGTTG	GTTTAATATC	180
TGTTTTGTCT	AAAATTAGAA	TTTCAGCCTC	TGCTTTTTT	CTGTTTTCCA	TTTGCTTAAT	240
AAATTTTTCT	TCATTCCCTT	ATTTTTAGCC	TATGGGTGTC	ATTGGATGTG	AGATTCATCT	300
CTTGAACACT	GTACTACTGG	TTCTTGCTTT	TTTACTCAGC	TTGTCACTCT	GTGTCTTTCA	360
ATTGGGCATT	CAAGGCTAGT	GTTGATATGT	GTGAATTTGT	TTCTGTCATC	ATGTTATTAG	420
TTGTTTATTA	TGCTGACTTG	TTTGTGTGGT	TTCNTTATAG	TGTTACTGGT	CTGTGCACTT	480
AAGTGTGTTT	TTTTAGTAGC	AATATTTTCT	TTTCATATGT	AGTGCTTTAT	GCGAGGTATT	540
TIGCAAGGAT	TTTCTGAATN	NTCNGAATTT	TTATGTGGGC	TAAACTAGGG	GCTCGAG	597

### (2) INFORMATION FOR SEQ ID NO:1374:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 459 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GAATTCGGCC	AAAGAGGCCT	AGCCTCCCAG	TGTGAGCCAC	CGCACCCAGC	CTGGATTGTT	60
GAATTCAATG	CTTGGGTCAC	CTCCAGATTC	ATTTTCACAG	TCTTTCATGT	TTTGGTCATA	120
TGACATTGTA	TTTTGCTGCC	ATATGACTGA	TCTTTTTTTG	TTAAATGTGA	GATACTTGTT	180
AAAAAATGTT	TAGCAATGAA	TTGAGGCCTA	GTAGCATGTT	ATCTTGCTGC	AGAAGAGATG	240
GGAGTCTACT	TCTGGGGGAT	GGTCAGGGGT	CCTCCATACA	GGCTGCAATT	GAAGTCGTCG	300
GTGCAGGCTC	AGTCCCTACA	AAGGCCAGGG	TATTTCCTGT	CCACCTTTAT	TCTGATGCAT	360
GACTCTTCTG	GGTCTCAACC	AGAGCCAGTG	GACTTCAGTA	TGGGTCGCTT	TCATTGGCAG	420
ACCCTCAATC	CACTTGTTTT	CCATCTAATC	CCACTCGAG		14111000	459

## (2) INFORMATION FOR SEQ ID NO:1375:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

GAATTCGGCC	AAAGAGGCCT	AATGGATCTC	ATGTGCAAGA	AAATGAAGCA	CCTGTGGTTC	60
TTCCTCCTGC	TGGTGGCGGC	TCCCAGATGG	GTCCTGTCCC	AGCTGCAGCT	GCGGGAGTCG	120
					CTCTGGTGGC	180
TCCATCAGCA	GCAATAGTTA	CTCCTGGGGC	TGGATCCGCC	AGCCCCCAGG	GAAGGGGCTG	240
GAATGCATTG	GGAGCATCTC	TTACAGTGGG	AGCACCTACC	TCACCCCGTC	CCTCAAGAGT	300
CGAGTCACCG	TTTCCGTAGA	CCCGTCCAAG	AACCAGTTAT	CCCTGAGGCT	GAGCTCTGTG	360
ACCGCCGCAG	ACACGGCTGT	GTATTATTGT	GCGGGGGGT	CTCCGGGCGA	TTATTCCTAT	420
GAGAATAGTG	ATTACCCCGA	CCCCCCGTAC	TATTTAGACT	CCTGGGGCCG	GGGAACCCTG	480
GTCACCGTCT	CCTCAGCTTC	CACCAAGGGC	CCATCCGTCT	TCCCCCTCGA	G	531

- (2) INFORMATION FOR SEQ ID NO:1376:
  - (i) SEQUENCE CHARACTERISTICS:

PCT/US98/06956 WO 98/45437

- (A) LENGTH: 661 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376: GAATTCGGCC AAAGAGGCCT AATGACTCAG AAGAAAGAAG TTACTTTACC ATTTTTTTT 60 ACACCATTTA AACTGCTTTC TGATTCCAAA CAGTTCAACA TTTTAAGAAA AGCAAGATCT 120 TATATAAAAC ACAGAAAGTT TGATGAAGTG GTCTCCCTTT GCAAGGAGCT AATTCATCTT 180 GCATTGAAAG GATTGTCCTA TTATCACACA TATGACAGAT TCTTTTTGGG CGTCAATGTT 240 GTTATTGGTT TTGTGGGATG GATATCTTAT GCCTCTTTGT TGATCATCAA GTCTCATTCC 300 AACCTTATAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCCT GCCTTGTAGT 360 TTTGTAGCTA TTGGCATTTT AGTAGCATTT TTTCTGCTGA TTCAAGCCTG TCCCTGGACA 420 TATTATGTAT ATGGTTTGTT GCCACTGCCA ATATGGTATG CGGTTCTAAG AGAATTTCAA 480 GTTATTCAGG ACCTTGTTGT ATCAGTGTTG ACCTATCCTC TGAGCCATTT TGTTGGGTAC 540 CTGTTAGCCT TTACCCTGGG AATTGAAGTA TTAGTTCTCA GTTTTTTCTA CCGCTATATG 600 CTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCGGCT GTGGACTCGA 660 661 (2) INFORMATION FOR SEQ ID NO:1377: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377: GAATTCGCGG CCGCGTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA 60 GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG (2) INFORMATION FOR SEQ ID NO:1378: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378: GAATTCGCGG CCGCGTCGAC CTTAAATTTA AAACTGGCCT GGTTTGCCTT TTTTATCAAG 60 AGAGCTTAAC AGATAAAAAA TGAAATTAGT CTATTTTCTA CTTGCCAGCA GTCTCGAG
- (2) INFORMATION FOR SEQ ID NO:1379:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 229 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

PCT/US98/06956 WO 98/45437

(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:	
GAATTCGCGG CCGCGTCGAC ATTTTATATA ATATTTTAAA TAAGTTTGTG TACAAAACAA AGATTTGACT GCATTTGAT TGTGACCCCG TTGCATGAAG TCAGGTGTGG AGTTTTCACA TTGGGGATAC CTAATGTGAG AGAGACTAGG CCACTCGAG CTACTCGAG	60 120 180 229
(2) INFORMATION FOR SEQ ID NO:1380:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 140 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:	
GAATTCGCGG CCGCGTCGAC GTTGGGGACA TGGTGGGTCT GAGAAAAGTG TTGCCCGCAA CTTTCTATCT GGCATTCCCT GCGGAGGAAA TAGAATGCGC GCTCTCCGAC AGCATTTCCT GTAACATCCG CGAACTCGAG	60 120 140
(2) INFORMATION FOR SEQ ID NO:1381:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 99 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:	
GAATTCGCGG CCGCGTCGAC TCTCAGAAGA GGTTTGTTTA ACTTCTATAA ATACAACCAC TTCATGCGTT GGCATCTCCT TGAGAAAAGG CTTCTCGAG	60 99
(2) INFORMATION FOR SEQ ID NO:1382:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 442 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:	
GAATTCGGCC AAAGAGGCCT AGTTTAAGTG CTGTGGAGTA GTATATTTCA CTGACTGGTT GGAAATGACA GAGATGGACT GGCCCCCAGA TTCCTGCTGT GTTAGAGAAT TCCCAGGATG TTCCAAACAG GCCCACCAGG AAGATCTCAG TGACCTTTAT CAAGAGGGTT GTGGGAAGAA	60 120 180

240

300

360

AATGTATTCC TTTTTGAGAG GAACCAAACA ACTGCAGGTG CTGAGGTTTC TGGGAATCTC

CATTGGGGTG ACACAAATCC TGGCCATGAT TCTCACCATT ACTCTGCTCT GGGCTCTGTA

TTATGATAGA AGGGAGCCTG GGACAGACCA AATGATGTCC TTGAAGAATG ACAACTCTCA

420

GCACCTGTCA TGTCCCTCAG TAGAACTGTT GAAACCAAGC CTGTCAAGAA TCTTTGAACA CACATCCATG GCAAACCTCG AG	420 442
(2) INFORMATION FOR SEQ ID NO:1383:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 501 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:	
GAATTCGGCC AAAGAGGCCT ATTCAGGTGT TTTCATTTGG TGATCAGGAC TGAACAGAGA GAACTCACCA TGGAGTTTGG GCTGAGCTGG CTTTTTCTTG TGGCTATTTT AAAAGGTGTC CAGTGTGAGG TGCAGCCTCT GGAGTCTGGG GGAGGTTTAA TACAGCCTGG GGGGTCCCTG CAGGCTCCAG GGAAGGGGCT GGAGTGGGTC TCAAGTATAA GTGACATTGG TGACACCAGA TACTACGGAG ACTCCGTGAG GGGCCGATTC ACCATCTCCA GAGACATTC CAAGAACATG TTGTATTTGG ACATGAACAG CCTGAGAGCC GAGGATACGG CCGTGTATTA TTGTGCGGCA AGGGATTGGT ATCATACTCG TGGCTATTAC TGGTACTACT TTGACTTCTG GGGCCAGGGA TCCTTAGTCA GCGATCTCGA G	120 180 240
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 634 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:	
GAATTCGGCC AAAGAGGCCT ACTTCAATAT TCTGTTACGG GTTTTTTAG TCTTTTTTC TCTTTGCTTT CCTGTGTGG AATTTCTAT TTCTATATAC TCAAGTTCAG AGATTCTTC CTTTTCCATA TCCTGTCTAC TAGTGAGCCC ATCCAAGGCA TTGTTCATTT CTGTTACAGT GTTTTGATCT TTAGTATTCT TTTTTCATTAC TTTCCTTCTG CTAACATTGC CCATAAGTGC TATATGCTG TATACTTTAT CTGTTGATCA TATTTGTTTT AAAATTCCTAA TCTGATAATT CAACATCTCT GACATGCTG GTTCTGGTTC TGATACTTGT TGTCAAACTG TGGTTTTTTT TCTTTTAGAG TGGCTTTTAA TTTTCTTTTT GTTTTTTTTTT	60 120 180 240 300 360 420 480 540 600 634
(2) INFORMATION FOR SEQ ID NO:1385:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 700 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA	
· · · · · · · · · · · · · · · · · · ·	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

GAATTCGGCC	AAAGAGGCCT	ACTCAAGTTC	AAGGAAAATG	AAGACAAAAA	GTGATATGAT	6
GGAAGAAAAC	ATAGATACAA	GTGCCCAAGC	AGTTGCTGAA	ACCAAGCAAG	AAGCAGTTGT	12
TGAAGAAGAC	TACAATGAAA	ATGCTAAAAA	TGGAGAAGCC	AAAATTACAG	AGGCACCAGC	18
TTCTGAAAAA	GAAATTGTGG	AAGTAAAAGA	AGAAAATATT	GAAGATGCCA	CAGAAAAGGG	24
AGGAGAAAAG	AAAGAAGCAG '	TGGCAGCAGA	AGTAAAAAAT	GAAGAAGAAG	ATCAGAAAGA	30
AGATGAAGAA	GATCAAAACG	AAGAGAAAGG	GGAAGCTGGA	AAAGAAGACA	AAGATGAAAA	36
AGGGGAAGAA	GATGGAAAAG	AGGATAAAAA	TGGAAATGAG	AAAGGAGAAG	ATGCAAAAGA	42
	GGAAAAAAAG (					48
	GAAAAAGAGG					54
	GAGAAGGGAG					60
	GAAGATGGAA					66
	TTAAAAGAAG			0.100, 2.10, 3.10	C140.848.021	70
(2) INFORM	TION FOR SEC	Q ID NO:138	36;			
(1)	SEQUENCE CHA	ARACTER I STI	Cs.			
(1)		H: 127 bas				
		nucleic a	-			
		DEDNESS: de				
		OGY: linea				
	(b) TOPOL	OGI: IINea	Ľ			
(ii)	MOLECULE TY	PE: cDNA				
(xi)	SEQUENCE DE	SCRIPTION:	SEQ ID NO:	1386:		
	CCGCGTCGAC AAAATTTTAA					6) 12) 12)
(2) INFORM	ATION FOR SE	Q ID NO:138	37:			
(i)	SEQUENCE CHA					
		H: 128 bas	•			
		nucleic a				
	(C) STRAN	DEDNESS: d	ouble			
	(D) TOPOL	OGY: linea	r			
(ii)	MOLECULE TY	PE: cDNA				
(xi)	SEQUENCE DE	ESCRIPTION:	SEQ ID NO:	1387:		
GAATTCGCGG	CCGCGTCGAC	CTCTGTTCAG	TCGTTTTGCT	GAATATTTAT	TAGCATTCCA	6
TCACTTTGTG TACTCGAG	TTTAATTAAT	agaagttgag	TTCAAACAAT	GTTTTTAAAA	TTCACACAAA	12 12
(0) *********		5 TD NO 12				
(2) INFORM	ATION FOR SE	Q 10 NO:13	88:			
( i )	SEQUENCE CH	ARACTERIST	ICS:			
/	~	TH: 816 bas				
		nucleic a	-			
		IDEDNESS: d				
		OGY: linea				
	(5, 10102					
(ii	MOLECULE T	YPE: cDNA				
lvi	SECTIENCE D	ESCRIPTION:	SEC ID NO	.1388.		

60

GAATTCGGCC AAAGAGGCCT AGTTTCTTTT GCTCTACATC TTCACCAGTA TTTGGTGTTA

TCAGTGTTCT	GAATTTTGTC	CATTCTGATA	GGTGTGTAGA	GGTATCTTAT	AATTTTAATT	120
			GACATCTTTT			180
GTATATCTTT	GGTGAGGTGT	CTGTTAAGGT	TGTTGGCCAA	TTTTTTAATT	GGGTTGTTTG	240
TTTTCTTGTG	GAATTTTAAG	AGTTCCTTAC	ACTGTCTCTG	TCTGTCTTGT	CTGTCTGTCT	300
GTCTGTCTGT	NGAGACAGAG	CCTCGCTCTG	TCACCCAGGT	TGCAGTACAG	TGGCACAGTC	360
TTGGCTCCCT	GCAACCTCTG	CCACCTGGGT	TCAAGTGATT	CTCCTGCGTC	AGCCTCCCGA	420
GTAGCTGGGT	TTATACCCGT	GCACCACCAC	ACCTGGCTAA	TTTTTGTATT	TTTAGTAGAC	480
ACGGGGTTTC	ACTANGTTAG	CCAGGCTGGT	CTCGACCTCC	TGACCTCAGG	TGATCCACCC	540
ACCTTGGCCT	CCCAAAGTGC	TGGGANGNGA	GCCACCACAC	CCAGCCTCCT	TACACATTTT	600
AGTTAATAGT	TCTTTATCAG	ATGTGTCTTA	TGTAAATATT	TCCTCCCTAT	CTGTGGCTTG	660
TCTTTTCATA	CTCTTGACAT	TGTCTTTTGC	AAAAGACAAC	AATTTTTAAG	AAACAAGTAG	720
ACAATTTTAA	TGAAGTCTGG	CTTATCAGTT	CTTTTCTTCA	TGGTTGGTAC	CTTTGGTGCC	780
GTATCTAAAA	GTCATCACCA	AACCCAAGAA	CTCGAG			816

- (2) INFORMATION FOR SEQ ID NO:1389:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 163 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTCGCGG	CCGCGTCGAC	CTAAACCGTC	GATTGAATTC	TAGACGAACT	ATATGTTTAA	60
GCAAAAACAA	TAAAAAAAA	CCTCAAAAAA	AGTAATATCA	GAGTTTTAAT	TTCAACCAGC	120
TGGCACAACA	ATGAAAGTGT	CAGACTTTCT	GAAAGTACTC	GAG		163

- (2) INFORMATION FOR SEQ ID NO:1390:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

TTCATGGCCT	AAAACCCTCA	TTAAATAAAA	AGAATCCAGC	ACTGCTACAA	60
AAAATGTCTA	ATTCTCAAAA	ATATGAGTGA	TGCAAAGAAA	CAGGAAACAG	120
AGGAAAAAAC	AGTGACTAGA	AACTGACTTA	AGAGTAAGCC	CAGATGTATT	180
AGCCTTCAAA	GTAGCTATTA	AATATGTTCG	AAAAAATTAA	GGGAAAATAT	240
CAAAAATAAG	GACTCTAAAT	ATAGAAATGG	GAGCTG		286
	AAAATGTCTA AGGAAAAAAC AGCCTTCAAA	AAAATGTCTA ATTCTCAAAA AGGAAAAAAC AGTGACTAGA AGCCTTCAAA GTAGCTATTA	AAAATGTCTA ATTCTCAAAA ATATGAGTGA AGGAAAAAAC AGTGACTAGA AACTGACTTA AGCCTTCAAA GTAGCTATTA AATATGTTCG	AAAATGTCTA ATTCTCAAAA ATATGAGTGA TGCAAAGAAA AGGAAAAAAC AGTGACTAGA AACTGACTTA AGAGTAAGCC	TTCATGGCCT AAAACCCTCA AAAATAAATT AGAATCCAGC ACTGCTACAA AAAATGTCTA ATTCTCAAAA ATATGAGTGA TGCAAAGAAA CAGGAAACAG AGGAAAAAAC AGTGACTAGA AACTGACTTA AGAGTAAGCC CAGATGTATT AGCCTTCAAA GTAGCTATTA AATATGTTCG AAAAAATTAA GGGAAAATAT CAAAAATAAG GACTCTAAAT ATAGAAATGG GAGCTG

- (2) INFORMATION FOR SEQ ID NO:1391:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 392 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

GAATTCGGCC TTCATGGCT ACTTTTAAGG GCTTGGAAGT TTCAAAACCA CAGTCTGCAT GTGACAGGTG CTCACTGCTG TTGGGTTGGC CGCTGGTTCT AGGCCTCTGC TGGAGTGTGT GATCTGCTTT CTGACGGCAG GGCGTTCAACA TGGGTGTGCT TTAATCTTAC GTCTCCGTCC TCTTTTTCCA CTCAGAGTGC TGGTCTCAAG GACAGTGGAG ATGAGAGAAT TGGAATATCG CATAATGTCT CATCTGTTT ATCTCTTGCT ACAAACATCA CAATCTCAAA ATAACAATGG CAGTACAACT GCCACCTATA TCATTACTGA AAACAGTGAA GATATTTTTT GCCCTAAGTCT TCCCATTCTG TGTAGTTATG CAGAGTCTCG AG	60 120 180 240 300 360 392
(2) INFORMATION FOR SEQ ID NO:1392:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 286 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:	
GAATTCGGCC TTCATGGCCT AGTAATCTTT CCCCCCAGTT TTTGGATGAA GAAACTAACA CTGAAGGGGC GAGGTGGCCT CCCAGGCTCA GAGGGTGATT CAGAATCCAG GCCTGGTGTT CCTTCCACAG TACCAAAGCG CCACACATTA GTTGTCTTGT AGATTTTCCA CACTTCAGGG AGAATGCCAA AGTATCTTTG CCTTGCACAC ACTACCTGTT CAACACTCAG TGACGAGGGT GTCGTGTGTG CTCAGGCAAC TCCCGCCCTT CTTCCTTTTG CTCGAG	60 120 180 240 286
(2) INFORMATION FOR SEQ ID NO:1393:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 320 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:	
GAATTCGGCC TTCATGGCCT ACTGAGTTCT CAAATCTAAC GTTTTAGGAA TTTTTTATTC CTGCAGAGAG TTGGGGAGCT GTTTAAAAGT TGGTTGGTTT AGCCAGTATA GCTAGATTCC TCAAGGTCAA CACAACGCCA TACTGCTCTA GCTGGGGCTA GATTTCTCAT GATAGTCTAA ACTGTGTGAT GGCCAAGTCC CCACTTTGAA GATGTCCAAA TTCAGCCTCA GACATTCTC CTCAAGAAAG GGGGGCAAA AAAGCCTTTT GTGCCCCTTT CCCAAATTAT TTGCTCATGT CGCAAGACTG AGGTCTCGAG	60 120 180 240 300 320
(2) INFORMATION FOR SEQ ID NO:1394:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 450 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:	
GAATTCGGCC TTCATGGCCT AACGCCATCT ACGACCTGAT CGAGCGCATC GAGGATTTGG	- 60

120

CGCTGCAGAA CCAGATCCGG GAGCACGTCA TCTCCATCGA GGACTCGTTT GTGAACAGCC

AGGAGTGGAC GCTGAGCCGC TCCGTACCGG AGCTTAAAGT GGGCATAGTG GGGAACCTGT CTAGCGGGAA GTCAGCCCTG GTGCACCGCT ATCTGACGGG GACCTATGTC CAGGAGGAGT CCCCTGAAGG GGGGCGGTTT AAGAAGGAGA TTGTGGTGGA TGGCCAGAGT TACCTGCTGC TGATCCGAGA TGAAGGAGGC CCCCCTGAGC TCCAGTTTGC TGCCTGGGTG GATGCAGTGG TGTTTGTGTT CAGCCTGGAG GATGAAATCA GTTTCCAGAC GGTGTACAAC TACTTCCTGC GTCTCTGCAG CTTCCGCAAC ACCCCTCGAG	180 240 300 360 420 450
(2) INFORMATION FOR SEQ ID NO:1395:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 276 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:	
GAATTCGGCC TTCATGGCCT ACCGTCATTC ATTGCAGGGA CCATCAAACC CCAGACAATC CTATTTTGGT GGGAAATCTA GCAGATAGAG AAGCCAAACA AGTAGCCCTA CAACCTGTAC AAGGCCAGTT TCTGTGCCTG TCCTCGTTCT CTCCTCTTTA CTCTCCAGAA GAAAAGGAGG ACTACCAAGC CCAAAACCTT CAAAAACAAG GACCATGGTA TGTCAAGGAA GGGTGCTTCC TTCTTCCTCA CTCTCAAACA ATCTCTATCC TTCGAG	60 120 180 240 276
(2) INFORMATION FOR SEQ ID NO:1396:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 241 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:	
GAATTCGGCC TTCATGGCCT AGGGGGCGGG GGGCGGGGCG	60 120 180 240 241
(2) INFORMATION FOR SEQ ID NO:1397:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 314 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:	
GAATTCGGCC TTCATGGCCT AGAAAATGAA GAAGAAGATC ATCAAGGACC AGAAACTGCT TGTGATCGTG GGGGGCATGC TGCTGATCGA CCTGTGTATC CTGATCTGCT GGCAGGCTGT GGACCCCCTG CGAAGGACAG TGGAGAAGTA CAGCATGGAG CCGGACCCAG CAGGACGGGA TATCTCCATC CGCCCTCTC TGGAGCACTG TGAGAACACC CATATGACCA TCTGGCTTGG	60 120 180 . 240

CATCGTCTAT CCGCAACTCT	GCCTACAAGG GACTTCTCAT GTTGTTCGGT TGTTTCTTAG CTTGGGAGAC CGAG	300 314
(2) INFORM	ATION FOR SEQ ID NO:1398:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 342 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1398:	
TGAAGACACC AAAAATTTTA GTCTTAGAGG ATATAATCAC AGAGTGCCGA	TTCATGGCCT AGTGCACACC AAGAACCAAG TTTCAGCTTG GTTACTGTGT TTTGCTATAT TTCAAGTCAT TCCTTCTTTT CTCAATTTTT TTTAATTGAC TATATCGTGT ACAACATCAA TCCATCTTGG CATCTGTATT TGTCAGGGTT GACAGAACTA ATAGGATATA TATAAGGGGG AGTTTATTAA GTATTAACTT AGGGTCCCAC AACAGGCTGT CTGCAAGTTG AAGAGCAAGG AGAGCCAGTC AACTGAAGAA CCTGGAGTCC GATGTTCTCG AG	60 120 180 240 300 342
(2) INFORM	ATION FOR SEQ ID NO:1399:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 614 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1399:	
AGCACCATGC AAATAGCTGG GAGAAGGGGT CTGCCTCGGC CTTGAGTTTT GCAAGCAGGA AGCAATGAAG TATCTTAATA ATTTTTGGCT ATGGATCTCT	TTCATGGCCT AGGGCCATGT TGGTTAGAAT GGTGCCATAT TTTCTGGGAT TGGCTGGGAT GGTGCCATGT TGGCTGGGAT GGCACCTGCC TCAGCCTCCC GATTACAGGC ATCTGCCACC ATGCCTGGCT AATCTTTTGC ATTTTTAGTA TTCGTCATGT TGTCAGGCTG GTCTCTCACT CCTGAACTCA GGTGATCCGC CGCCCAAAGT GCTGGAATTA CAGGCATGAG CCGCCACGCC TGGCCTTTTA AATAGGATCG CTCTTGCTGC TATTGAGGAT AGTACATATG GGGTAATGAT ACCTACTGTA GTACTCTCA GGAGAGAATG GTGGCTTGCA CAAGGATGA GTGGTGAAAA GTGGTCAGTT TCTATATTTA TTAGGAAACA CCTAGGATGA GACCAAAATG TGAAATGTAA GAAAAATAGA GATGTCAAGA TGACACAAAG TTGACAACTG AAAGAATAGT TACTATCAAC TGTGATTGGT AACAATGCAC CGAG ATION FOR SEQ ID NO:1400:	60 120 180 240 300 360 420 480 540 614
	•	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
1::1	MOLECULE TUDE. COMA	

- (11) MOLECULE TYPE: CDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

PCT/US98/06956 WO 98/45437

TGTATTAAAG	ATCACAATTG AATTTTTTT TAATTTCAG TAATACATTG TAGTAGTAGG ATTATATACT CTACTGTTTA GTGGAAAACT CTGGAAGTTA	CCTTGGCTGA	GAATTCCAAG	120 180 240 244
(2) INFORM	ATION FOR SEQ ID NO:1401:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	1401:		
AAGAAGCCAC AAGCACTTAA TCACATAATT TCAAATTGTC	TTCATGGCCT AAAACAAACA AAAAATTATC AGAAATGTTT AAAAACTTCA TCGACTTAGC ACAGAAGCAG AGGCTAATTC AGTGTCACAT ACTTTCGTAA TAGCTCAGAT TAGAATGGCT CTATTGTGAC TCTTCTAAAA ATGAAGATGA AACGGGAAAC TCGAG	CTGAGTCATA GAGGAAGTAG ACCCCATTCT	ACGGTTAAGA CTGTCAGATG CTAGACAAAA	60 120 180 240 300 325
(2) INFORM	ATION FOR SEQ ID NO:1402:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		. •	
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	1402:		
TAGTCCCTTT TTCCTTTAGC GTTCAAAAGT TACATCAGCA	TTCATGGCCT AAAAGAAAAG AGAAAGTGTT GTTCTAGTAG GAAAAAAGGT GCCTAGAGGT CTACTTCCTG CAGCTTCCAA TTTATCCAAG CTGTTCTAGT CAATAGCAGG AGAAGTCCAC AGAGAAATGT CACGTGATAC TCAGGCCGCG ATGTCAATAA ACCCACTTTG GCTAGGCAGG	AGTATATAGA GAAATGTCTA GTTATTGGGC CTTTCTCTTC	GTAAATATTG CAACAATTTT TGATTTTGCT CATCACACCA	60 120 180 240 300 360 364
(2) INFORM	ATION FOR SEQ ID NO:1403:			
(i)·	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii	) MOLECULE TYPE: cDNA			
(xi	) SEQUENCE DESCRIPTION: SEQ ID NO	:1403:		
TAAGATTGTT	TTCATGGCCT AGTTAGGGAC TAACATTTGT TATTATACAG CAGGGTACAA TGGTAGTGCT TAAAAATTAT CGCTAGGCTT TATACAAGCA	AATGCCAACA	GGGCACCATG	60 120 180

	GGAAATGATC IGCTTCTAAT ACTAAGCAGT TCTTTAACAT ITITAAATAT ACCTGCCTCG AG	262
(2) INFORMA	ATION FOR SEQ ID NO:1404:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 396 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1404:	
TGTCCTCTTT CTGTGTATTT CTTCTCTTCC TAATTCTGTT CGGCTCTGGC	TTCATGGCCT AGCAATTTGC TTCAGTTTCC TTATGTTTGC CTTTCTCATC TCCATTTAT TCCTACTCTG TCTCAGTCCA CTTACAGTTA TATTTCCTAT TATAATATTT GTGCTTTAAA ACTTTTAAAA TATCCTTTAT CTTGTCATAT TTTAAAGTGT TTTATTTCTC AGCCTTCTACAAT AGAGTCCGTT CCCAAGCTTCT TGTCTTCCCA TCTCTCTCCA TTATTTCCTA TTTATGGAAT ACAAATCTTT TACCCTTGTA TCCTCTCCCA ACACCCCCGA CTCGAG	60 120 180 240 300 360 396
(2) INFORMA	ATION FOR SEQ ID NO:1405:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 444 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1405:	
ACATACACTG CATGCGTGCA AACAGGTTAG AGGGTCATTG GTTGTTGGCC ATGCCTTGGG	TTCATGGCCT AGACCAAAAT GTCTGCCCAG ATAAAGGATA CATTGTGCAT GGGAGAGGCA GACAAAAAAA CAATGTAGTT TGAGTGTGTG TGCGTGCTTG TGCAGGCATG TGCATATATA ATGCTAAAAC ATGATAAGTA CTATTAAAAA GGTGATTGAA ACTACTAGGG TATGAATAAG AGTGGGTTGC AATTTAAAGT TGGTTGGCCT TATTGAGGTG ACATTGGAGT CAAGACTTGG AAGAAGAAAG ACACAGCTAT TGAGGGAAAA ATGTTCCAGA TAGAAGAAAC AGTCAGGCCA ATGGAATCAT GCATAGAGTA TTCACAGAAT AGCAAGGAAG CTCTAGTTCT GACTGAGACT CGAG	60 120 180 240 300 360 420 444
(2) INFORM	ATION FOR SEQ ID NO:1406:	
(i) <sub>.</sub>	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 363 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1406:	
GCCTGAAGTT	TTCATGGCCT ACCTAGAAGG TAGTAATGAT AAGCATTTAA TTAGAAGTAG TGCAGTGCAA TGCAGTAAGT ATTTACCGAG TGATTCATAT GAGTAAGGAT CTATAAGAGC TGCAAAGTTT ATTAAGATAC ATCCCTGTCC TGGAAACACT	60 120 180

GCCAGCTTCG ATGAGAATAC AACAATGTTA GATATATTCG TTTTGGAAGA TACCTTTCCC

240

CCAGTTATTT TCATTTCACA GCTTCTCCAG CCTCCTTCAG CTTCTGTTCT CCCTCTTTGC TTTTCTGTCT CAATTTTCCT GCCCAGCCCT AAATTCACAG AGTAAATCCA CCAGAACCTC GAG	300 360 363
(2) INFORMATION FOR SEQ ID NO:1407:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 229 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:	
GAATTCGGCC TTCATGGCCT AGGCTTCAGG GATAACCACG TTCAGGTGGG TTAGACACAC CTCCTGTGGG AGGGTGATTG CAATTAGCTA TCATAAGGCA GGAGACACAA CAGCAACTTA AATTATCCAC AAGCAGAATC ATGAGCTGTT TGCAAAGGGA GTTTCCATCG CAAGACAGTT TCACTGTATT TAAGCGAGAT CCTGCCCTCG TACACGATCA CCGCTCGAG	60 120 180 229
(2) INFORMATION FOR SEQ ID NO:1408:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 512 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:	
GAATTCGGCC TTCATGGCCT AGGCTTCTAG AACAAGAATG TAGGCAGGCT CCCAAATGGA GAGGTAAACA TGACCGCGTT GTTTGAAACT ACTTCATTAA TTTGTAAATC AGAACCAAAA AGCTCTGGCC CTCCCACTTC TCTTAGCTGA CCCTCCTCCC CACTTACGGA TAAACAGACT TTAACTTCCC TAACCCAGAA ACACTTCCAC CAAAAATGTA TGGTTATACC TTATCCTAAA AAGGCACCAT GCAGGCATTT AAGACTGAAC CAGTGAACTC TAAATATGTA GTAGTAGAAA ATATCACTAA TCAAAACTTC CAGCATCAGA TGGTACAAAA CCCCCAAGAGG ACTGGTGACA TGTACCCCGG GATGGCAACC CCAGCTTCTG GCAACCCCAC AGCCCAGCGG GAGCTTCAGC TCTGGTCAGG TGCACGGCTG CCAAAGTCTG CACACCTTGG GGACAAGGAA AGGAGACACT TGCTTCATTG TGCTATTCAT GACCCAGTCG AG	60 120 180 240 300 360 420 480 512
(2) INFORMATION FOR SEQ ID NO:1409:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 262 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:	
GAATTCGGCC TTCATGGCCT AATGGATTAT ATTTCTATAA CAGTTAGAGT ACTATTCCAT TTATCTCTTT CATTTTGAGT AAAGTTTGGT AGTTTAGGGA GGAATTGATC AATTCATCT AAATTGAAAG ATTCAGGTAC ATAAAGTTGT TGTTATATTA CTTATTATTC TTTTAATGTC	60 120 180

(A) LENGTH: 441 base pairs
(B) TYPE: nucleic acid

TTTTTGTGCC AGCATGCTCG AG

(2) INFORMATION FOR SEQ ID NO:1410:

(i) SEQUENCE CHARACTERISTICS:

TGTGGGGTCT AGTGATGTCT CCTCTTTCAG TTCTGATATT GGTAATTTGT GTCTTCTCTC

240

262

(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:	
GAATTCGGCC TTCATGGCCT AGGAGGTGG TTTCTCTATC ATTGCATGAG GTAAGAGTCT GGCCCTGGAT GCTAAGGCTG CAGTTTTCTA CAGAAAGGAG TCATCTCTG GAGGCACAT CAGCCTCCAA GACACAGTGI GCTGACCTGG TTTTGTATAA AGATGAAAAAC AGCTGTTCTC AACTGGCTGA GGCCGCCAC AGAGAGAGCG GCGGGCTCAG CCTTCACAGG ATTGCCTTC CACTAAAGGG TAGGGGGTTT TAATCATCGC AGAAAGGAAG TGGGGGTGAA GGTCAGGAAA AATAGAAGCA CGAATTCACC CCTCAGGCCT CAGCTAGAGG AAGCTAAGAG AAGAAATGAG ATTGCATAAC TGTTAAGAAA AAGGCAAAGC TGGAGAGAAT GCAGAGGATT CTGGTTCCTG GAGAGAACCT TCAGACTCGA G	
(2) INFORMATION FOR SEQ ID NO:1411:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 479 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:	
GAATTCGGCC TTCATGGCCT AATTCATTGT CTGGTCCTTT ACAAAAGACA TATGCTGGCT CCTGCTCTCT GTGGATGATA GGTCTACAAA GATGTGATTC AACTCATATA TGTCTCCAAA TTTATATATT AATTCATATA CTGTTTTGTC TTACATTAAT CTAGCATTGT CTTTTGGCTT GCTACTGCAG TAAGTTACCT TCTAATTCAT CATTAGGTCA ACTTTATCAA CTCACCTAAG TCCAAAAGTA AATGTAGGTT TCTCCTGGGT TCTTTTGCCT CTTAAGTTTT GCCATCCCCA AATAAGCACA ACAGAGACCT GCACCAAGAG ACCTTACTTT TAGACTGTAA GCACCAAAGT GATTTCTGTA GAGAGACAC TAGCTATGTA TAGTGTTGTC TAGGTGAGGT CTTCTCGAG	60 120 180 240 300 360 420 479
(2) INFORMATION FOR SEQ ID NO:1412:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 497 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:	
GAATTCGGCC TTCATGGCCT AGCCGATTTA TAAATATGTA TATATAACCT TTCCCTTTTT GAGAGATCTC TTAGTAATAG TCAAAGCCAT ACCCTATTCC TTAGTGAGAA AGCCAGTTTG	60 120
561	

AAACGAATGT	AGCAATAGAT	GTAAAAACAT	TTAAAGGCGT	TTTAATGTGG	CTTTTTAATG	180
AGCTGGCTTA	TGCCTGTAGT	CCCAGCACAT	TGGGCAGCTG	AGCTGGGAGG	ATCGCTTGAG	240
CCCGGGAGTT	CAAGACTAGC	CAGGGCAACA	TAGTGAGACC	CCATCTCTAT	TTAAAAAAAA	300
ATGTTTTŢĀA	AGATAAGGAA	CAGACTTAAA	GTGATGATTG	ATTGCTCATA	GAACGTTCAT	360
TTTGGGCTCC	AGAACTAGGA	ATGATGTAGA	ATTTATTGTT	GTGTCATTGT	CTCATTAAAT	420
GCTGTAGTTT	CCTATGTCCT	TGCCTACCTT	CTTTCCTCAG	AGCCTCGCAT	CTGACCCTCA	480
GAGAGTAGCA	GCTCGAG				j.	497

- (2) INFORMATION FOR SEQ ID NO:1413:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 439 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC	TTCATGGCCT	ACAGGAACAA	AAAATGCTAT	GCTATTATCT	CAAAAATGCA	60
TACTCCTTCC	TACTTAAGAA	TAATAAATTT	ATATATTATG	ATATGGTAAA	ATTCACAACT	120
AATTGTATTT	TTCCCTAGAA	TGTTTAAAGC	ATTATCTAAT	ACCAGCTTCA	GTGTCTATAT	180
TACTGTAACT	TCATGAAAGA	CTACTAACAA	TACTGGCTAT	CATTTATTAA	TATTAAGTAG	240
TACTTGCCAG	ATGCCGTTAG	AGGTGCTTTA	AATGCATTCT	CATTTAGTCT	TCGTGTGTAC	300
TACCGTTATC	TTCACTTTTT	AGATAAGGAG	ACTAAAGTAT	AACTAGAGCT	AAGAAACATG	360
AGAAAGACGA	CCTAGCTACT	GCCTATTTTG	TAATTCCCAT	GGACTAAGCT	TGGAGAAGTA	420
AGAACTATTA	CTACTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:1414:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 243 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC	TTCATGGCCT	AGCCACTTCA	AGACGGCAAG	TTATTTTAGC	TCCTGTCTAA	60
ATAAGTTAGT	GGGCTCCAGT	CCTTAAACCA	CTATTTTCTT	TATTAATTCC	TCAAGTACAG	120
ACTTTTGTAT	GTAACCAGTC	TTTTTAAACC	TGTGTATAAT	GACTCATTAA	TGAGTTGTAA	180
AATAAATGTA	GTGAGTTATG	ACCAATATAA	AAAAATAGAA	AAGGCCAGGC	ACAGTCGCTC	240
GAG						243

- (2) INFORMATION FOR SEQ ID NO:1415:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 276 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC TTCATGGCCT AGTCTTCCAA GACAGGAATC AGCAACCTTT TTTTGTTTTT	60
CTGTATCAGT AATTCATTCT GTATATTTTA AAAAGTTTTA ACCTCTTCTT CCTAGCCCTC	120
CAGTATTTGT TTATAAATTA AAACGTTTCC CAAAGTGTTT TCTGTGAAAC AATAGTTCTA	180
AAAGGTGCTC TAAGAAAAGC TAAGTACATG GCAAAATCCA AAGTATATGT TTTATTCATT	240
ACATTTGATG AATTTTTTT GTTTTTTCCT CTCGAG	276
(2) INFORMATION FOR SEQ ID NO:1416:	
(i) SEQUENCE CHARACTERISTICS:	

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

${\tt GAATTCGGCC}$	TTCATGGCCT	AGAGAGCAGG	TTTTAGCTTG	CATCCAGCTG	TTTCTTGAGT	60
GATGTGTACA	GCTTACCCCC	AAAGAGGCAA	CTGAATTTCA	GCTGCTCTAA	TACCCACACC	120
CTCAACTTAG	GTTTAGTCAT	AATAAAAAAC	AGAATGGATT	TGTTAGTTCC	ATTGATTGCC	180
ACAAACCTCA	CCTTCTGTGT	GGCAGAGATG	TGCTTTAGTT	CTTCATTGGA	ATGTTACTTT	240
CAGATCTCAC	AAACCTCAAA	CCTAGGGCAC	CACCAATGAC	AAAGAGAATG	CTAAATAGAT	300
AAATCCTTTG	CCAGGTCTTC	AAGCTTTCCA	CTCCCCTCGA	G		341

- (2) INFORMATION FOR SEQ ID NO:1417:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 455 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCGGCC	AAAGAGGCCT	AGCCATTATT	ATTAAAAAGT	AGGATTGCTA	CCCGCCATTA	60
CTATTAAAAA	${\tt GTAGGATTGC}$	TACCCGCCAT	TATTATTAAA	AAGTAGGATT	GGTACCCGCC	120
ATTATTATTA	AAAAGTAGGA	TTGCTACCCA	ACATTATTAT	TAAAAAGTAG	GATTGCTACC	180
CTCCATTATT	ATTAAAAAGT	AGGATTGCTA	CCCTCCATTA	TTATTAAAAA	GTAGGATTGC	240
TACCTGCCAT	TATTATTAAA	AAGTAGGATT	GCTACCTGCC	ATTATTATTA	AAAAGTAGGA	300
TTGCTACCTG	CCATTATTAT	TAAAAAGTAG	GATTGCTACC	CGCCATTATT	ATTAAAAAGT	360
AGCATTGCTA	CCCGCCATTA	TTATTAAAAA	GTAGGACTGC	TACCCGCCGT	TATTTGCACA	420
GCTACCTTAT	GAAAGTAGTT	TCACGCTGTC	TCGAG			455

- (2) INFORMATION FOR SEQ ID NO:1418:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 573 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

ACCAGCCTCC	TGTTTCTACT	GCCATCCCCT	CCTCATGCAC	AGATGCCTCC	TCCCTTGGCT	120
CCTGCTCTGA	TCCCTGTACC	CAGCTTGTCC	CCTGCAAGCA	TGTTCCCCTC	CCTTGCCCAG	180
GCTCTGACAC	CCCACACATG	TGTGGATCCC	CTCCCCTGTC	CCAGCTCTGA	TACCCCTTGC	240
ATGTGTGGCT	GCCCCTCACC	TGGGTGTCCT	CTTCCCTGTC	CCAGCTCTGA	CAÇCCACGCA	300
TGTGGGGCTG	CCCCGTGCCT	AGGTGTCCCC	TCCTCTGCTC	AGGCTCTGTC	CTCCTGCGGT	360
TGGCTTTCCC	ATTCTGGATG	CACCTCACAC	ACAGCCTTGT	CATCTTTGGA	TGAATTTGGC	420
CTCCCCCATC	CACTGCTGGT	GCAGATGCTT	CCTTACGGGG	${\tt CCTTGTCTGA}$	TGGCTTTAGG	480
GCTGAATCAT	GCAGGAAGGA	AGGAGAAGGA	CAAGAAGAAA	AGGGAAGGCT	GGGAAGGGAA	540
GCGGGTGGTA	AAATTGGTTC	ACAAGCCCTC	GAG			573

- (2) INFORMATION FOR SEQ ID NO:1419:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 188 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

GAATTCGGCC AAAGAGGCCT	ATTTTAAAAA	AAACTATTTA	ATTTTTTAAT	TTATTTTTGG	60
TTGTTTTTTG CACAATGAAG	TTTCAGCTTC	TCAACCTTCT	CCCCTACCCA	GGGCTGTGGA	120
CCCAGACTGG CCTTGAGCCA	CAGTCCCTCT	TTCCCTCCTC	ACCCTCTTCC	CCCTCCGGGC	180
ACCTCGAG					188

- (2) INFORMATION FOR SEQ ID NO:1420:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 572 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAATTCGGCC	AAAGAGGCCT	ACGAGGAAAG	ATCTAATTAT	CATGGACCTG	CGACAGTTTC	60
TTATGTGCCT	GTCCCTGTGC	ACAGCCTTTG	CCTTGAGCAA	ACCCACAGAA	AAGAAGGACC	120
GTGTACATCA	TGAGCCTCAG	CTCAGTGACA	AGGTTCACAA	TGATGCTCAG	AGTTTTGATT	180
ATGACCATGA	TGCCTTCTTG	GGTGCTGAAG	AAGCAAAGAC	${\tt CTTTGATCAG}$	CTGACACCAG	240
AAGAGAGCAA	GGAAAGGCTT	GGAAAGATTG	TAAGTAAAAT	AGATGGCGAC	AAGGACGGGT	300
TTGTCACTGT	GGATGAGCTC	AAAGACTGGA	TTAAATTTGC	ACAAAAGCGC	TGGATTTACG	360
AGGATGTAGA	GCGACAGTGG	AAGGGGCATG	ACCTCAATGA	GGACGGCCTC	GTTTCCTGGG	420
AGGAGTATAA	AAATGCCACC	TACGGCTACG	TTTTAGATGA	TCCAGATCCT	GATGATGGAT	480
TTAACTATAA	ACAGATGATG	GTTAGAGATG	AGCGGAGGTT	TAAAATGGCA	GACAAGGATG	540
GAGACCTCAT	TGCCACCAAG	GAGGGTCTCG	AG			572

- (2) INFORMATION FOR SEQ ID NO:1421:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 498 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GCAAGACGGC	TACTGAGGCA	GGAGAATCGC	TTGAACCCAG	GAAGCGGAGG	TTGCAATGTG	60
CCAAGATCGT	GCCACTGCAC	ACTCTAGCCT	GGGCAACAGA	GCAAGACTGT	GTCTCAAAAA	120
			ACATACTTCT			180
			TATCTCAGCG			240
TGTGCAGGAA	TGGGTAAAGT	CCCCTTAAAC	AAAAATGGGG	TTAGTTANGT	TAGTTCTTTT	300
			TTAGCCTGAC			360
			GAGTCAGACC			420
GGGAAGATTG	GGAAAGGCCT	AGGATCAGAG	AGGGAAATGG	GTCCCTGGTT	GCCCATGGAC	480
CTAATGGGGT	CTCTCGAG					498

### (2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 827 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCGCGG	CCGCGTCGAC	GAGGAAACCA	GCCAAGGACT	AACTACGACC	ATGAGATTGG	60
CAGTGATTTG	CTTTTGCCTG	TTTGGCATTG	CCTCCTCCCT	CCCGGTGAAA	GTGACTGATT	120
CTGGCAGCTC	AGAGGAGAAG	CTTTACAGCC	TGCACCCAGA	TCCTATAGCC	ACATGGCTGG	180
TGCCTGACCC	ATCTCAGAAG	CAGAATCTCC	TTGCGCCACA	GAATGCTGTG	TCCTCTGAAG	240
AAAAGGATGA	CTTTAAGCAA	GAAACTCTTC	CAAGCAATTC	CAATGAAAGC	CATGACCACA	300
TGGACGACGA	TGATGACGAT	GATGATGACG	ATGGAGACCA	TGCAGAGAGC	GAGGATTCTG	360
${\tt TGGACTCGGA}$	TGAATCTGAC	GAATCTCACC	ATTCGGATGA	GTCTGATGAG	ACCGTCACTG	420
CTAGTACACA	AGCAGACACT	TTCACTCCAA	TCGTCCCTAC	AGTCGATGTC	CCCAACGGCC	480
GAGGTGATAG	CTTGGCTTAT	GGACTGAGGT	CAAAGTCTAG	GAGTTTCCAG	GTTTCTGATG	540
AACAGTATCC	TGATGCCACA	GATGAGGACC	TCACCTCTCA	CATGAAGAGC	GGTGAGTCTA	600
AGGAGTCCCT	CGATGTCATC	CCTGTTGCCC	AGCTTCTGAG	CATGCCCTCT	GATCAGGACA	660
ACAACGGAAA	GGGCAGCCAT	GAGTCAAGTC	AGCTGGATGA	ACCAAGTCTG	GAAACACACA	720
GACTTGAGCA	TTCCAAAGAG	AGCCAGGAGA	GTGCCGATCA	GTCGGATGTG	ATCGATAGTC	780
AAGCAAGTTC	CAAAGCCAGC	CTGGAACATC	AGAGCCACGG	CCTCGAG		827

- (2) INFORMATION FOR SEQ ID NO:1423:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 348 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

ACATGATAAA CATGCAAGAC TGTTATCCAA TCTAGATAAT TTATATACAT TTTGATGACT	120
TAGGAAAACA AAGCAATCAT TTGTGACAAG CCTAAAAAGC TTGACATATT TAACATACTT	180
AGGAACTTTT TTTGTGCGGT GGGAATTCTC TAATTGTATC ATGTGGGCCT TTTGAAAGTA	240
ACAAACAGAA GGCCAGTCTG TTGCAAGTTT GCTGCTGAAC ATCACATTCC ACCCTAAGAA	300
AACACAAGGT GGATTGCATC GAGGGTGGAT ACCTTACCTT	348

(2) INFORMATION FOR SEQ ID NO:1424:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 152 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:	
GAATTCGCGG CCGCGTCGAC TTGGAGAATG TGGCCTCTGA TCACTAACCA GGGTTTTCTC TTTACACTGG CTTGTTTACT TATTTCTTCA CCAAAGCCAG GGAACGTCCC TTTAGCTACT GCAGCATTTC TAACAGATGC GACAAATCAC AG	60 120 152
(2) INFORMATION FOR SEQ ID NO:1425:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 206 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:	
GAATTCGCGG CCGCGTCGAC CTAAACCGTC GATTGAATTA GACCTGCCTC GAGATGCGCC ACTTTCTGCT CACCCACCTT AGAGCCTTTG CATATGCAGT TGCTTCCTCA GAGTATTGCC ATCCCCAGCA CGACCCCAG CTCATTCTTC AGGCCACTAA CGTAAATGTT ACTTTCTCAA AAACACCCTC TCCATCCCGG CACCCA	60 120 180 206
(2) INFORMATION FOR SEQ ID NO:1426:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 353 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:	
GAATTCGCGG CCGCGTCGAC GTGGGTACTT CATCCTCCTC ATCACTGGTT GGCACTGAGA GCTTCTTAAG ACGCTCCATG AGCTCTTTCT CTTCTCCATC ATCATCCACA TCCTTCTTCC GCCTGCCTTT TCGGGTATCT CGCTTTTTT TTTGCTGCTG TTGCTGTTGC TGCTGCTGCT GCTCCTTCTC CTTGAGCACT TTCTCTTCTT CCCCAGCCTG TTTATCTTCT ACTGCCAGCT CTTCAAAGAA CGTTTTTTTG ATCTTCTNGT CCTTCTTCCC TTTCTTCACC ACTTTGTCTG ATGGGCTCGT GCTCTCTCCG TCCCCGATCC ACTCGGGCTC CGGCGGACTC GAG	60 120 180 240 300 353
(2) INFORMATION FOR SEQ ID NO:1427:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 343 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
566	

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GAATTCGCGG	CCGCGTCGAC	AGATATTTGG	TTATCTTGAC	TAAAATTTTT	AACATATTTC	60
TACAGGATTT	TGAGTCTGAG	AAGAGAAAGG	TAATATGCAA	GACACTTCGA	TTTGTTGCAC	120
ATTATTATGG	AGCATCATTA	ATGGTTTGTA	CATTTCTTGT	CCTTTGGGCT	TGAATGGACA	180
GTACCAAATT	TGGGGAAATC	AGCAACTTGA	TGCACAGCTA	CGAGGAATAA	ATGCTTTTGC	240
TAATGCACAT	GGTCCCGTTG	CTTTCCCACT	GCTGAAGACC	TCTCCTTACA	GAGTGTTTGA	300
TAATGCATCT	GTTGAACATG	CACTGCTAGA	TGGTCCTCTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:1428:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 542 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAATTCGCGG	CCGCGTCGAC	GAGGGGAAGA	TGTCACGCAA	GATAGAAGGC	TTTTTGTTAT	60
TACTTCTCTT	TGGCTATGAA	GCCACATTGG	${\tt GATTATCGTC}$	TACCGAGGAT	GAAGGCGAGG	120
ACCCCTGGTA	CCAAAAAGCA	TGCAAGTGCG	ATTGCCAAGG	AGGACCCAAT	GCTCTGTGGT	180
CTGCAGGTGC	CACCTCCTTG	GACTGTATAC	CAGAATGCCC	ATATCACAAG	CCTCTGGGTT	240
TCGAGTCAGG	GGAGGTCACA	CCGGACCAGA	TCACCTGCTC	TAACCCGGAG	CAGTATGTGG	300
GCTGGTATTC	TTCGTGGACT	GCAAACAAGG	CCCGGCTCAA	CAGTCAAGGC	TTTGGGTGTG	360
CCTGGCTCTC	CAAGTTCCAG	GACAGTAGCC	AGTGGTTACA	GATAGATCTG	AAGGAGATCA	420
AAGTGATTTC	AGGGATCCTC	ACCCAGGGGC	GCTGTGACAT	CGATGAGTGG	ATGACCAAGT	480
ACAGCGTGCA	GTACAGGACC	GATGAGCGCC	TGAACTGGAT	TTACTACAAG	GACACTCTCG	540
AG						542

- (2) INFORMATION FOR SEQ ID NO:1429:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 465 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

GAATTCGCGG	CCGCGTCGAC	TTAAGAGTCT	GCTTCGGAGA	CCGTAAGGAT	ATTGATGACC	60
ATGAGATCCC	TGCTCAGAAC	CCCCTTCCTG	TGTGGCCTGC	TCTGGGCCTT	TTGTGCCCCA	120
GGCGCCAGGG	CTGAGGAGCC	TGCAGCCAGC	TTCTCCCAAC	CCGGCAGCAT	GGGCCTGGAT	180
AAGAACACAG	TGCACGACCA	AGAGCATATC	ATGGAGCATC	TAGAAGGTGT	CATCAACAAA	240
CCAGAGGCGG	AGATGTCGCC	ACAAGAATTG	CAGCTCCATT	ACTTCAAAAT	GCATGATTAT	300
GATGGCAATA	ATTTGCTTGA	TGGCTTAGAA	CTCTCCACAG	CCATCACTCA	TGTCCATAAG	360
GAGGAAGGGA	GTGAACAGGC	ACCACTAATG	AGTGAAGATG	AACTGATTAA	CATAATAGAT	420
GGTGTTTTGA	GAGATGATGA	CAAGAACAAT	GATGGCATAC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1430:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 373 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

GAATTCGCGG	CCGCGTCGAC	GCTGTTCATG	AGGAGACTTA	ACCACAATTC	AAAGTGTAGC	60
AGTTGTGTAT	TTTAGCATTA	TAATATTTGA	TTGAGGCCCT	GAGGTGTTAA	TATCTCAATC	120
TCAGAGTTAG	ATGTTCATGT	CCTTTTTGAA	TTTTTTAAAC	ATTTTTCATA	ATTTTTTTT	180
TAAGTTAGGG	AGCACATTGA	GTGAAGTTCT	CTGTGTAGAA	CAATACCTTC	TGCTCTGCTT	240
CTCCCAGCTT	TCACTGAGGG	CTGGAAAAGG	ACAGGCCTGT	CCAGCTGTAC	TGTCCCACTG	300
TGTATGGGGA	AGCTCAGGCT	CTGGTGGAAG	CAGGGGGCAT	GGATGTCAAA	CAACTGATGT	360
GCAAACACTC	GAG					373

- (2) INFORMATION FOR SEQ ID NO:1431:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 632 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

GAATTCGGCC TTCATGGCCT	ACTACTGATG	AGAACATTAT	CTGCATATGC	CAAAAAATTT	60
TAAGCAAATG AAAGCTACCA	ATTTAAAGTT	ACGGAATCTA	CCATTTTAAA	GTTAATTGCT	120
TGTCAAGCTA TAACCACAAA	AATAATGAAT	TGATGAGAAA	TACAATGAAG	AGGCAATGTC	180
CATCTCAAAA TACTGCTTTT	ACAAAAGCAG	AATAAAAGCG	AAAAGAAATG	AAAATGTTAC	240
ACTACATTAA TCCTGGAATA	AAAGAAGCCG	AAATAAATGA	GAGATGAGTT	GGGATCAAGT	300
GGATTGAGGA GGCTGTGCTG	TGTGCCAATG	TTTCGTTTGC	CTCAGACAGG	TATCTCTTCG	360
TTATCAGAAG AGTTGCTTCA	TTTCATCTGG	GAGCAGAAAA	CAGCAGGCAG	CTGTTAACAG	420
ATAAGTTTAA CTTGCATCTG	CAGTATTGCA	TGTTAGGGAT	AAGTGCTTAT	TTTTAAGAGC	480
TGTGGAGTTC TTAAATATCA	ACCATGGCAC	TTTCTCCTGA	CCCCTTCCCT	AGGGGATTTC	540
AGGATTGAGA AATTTTTCCA	TCGAGCCTTT	TTAAAATTGT	AGGACTTGTT	CCTGTGGGCT	600
TCAGTGATGG GATAGTACAC	TTTTCACTCG	AG			632

- (2) INFORMATION FOR SEQ ID NO:1432:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 298 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC	TTCATGGCCT	ACTAATTTCC	AAGAGCTAAA	CTTTATACCG	CCTGCAATAT	60
TTCCATTTAC	TACCAGTTTT	TTTCTGACCT	AGTCAGATAT	AAGAAGCCCC	CTTACTGGAT	120
ACAAGACAGT	TAATTATCAG	ATCCAGTCTG	ATCCTAGATC	CAGTCTGATC	CTAGACCCAG	180
TCCAGTTTCT	GTTGTGACTT	CCAAACCCAG	TTTGGATCAG	AAATTTGCTC	AAAGAAACTA	240
GGAGAGCTCA	AAACACAAAT	ATGTGGAGCT	TCTGAATCTG	AGAGAGAACG	AACTCGAG	298

- (2) INFORMATION FOR SEQ ID NO:1433:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

ACCTTGTTGG	CCAGGCTAGT	CTTGAACTCC	TGACCTCAGG	TGATCCACCC	60
TCCAAAGTGC	TGGGATTACA	GGCATGAGCC	ACCGCATCTG	ACTGGTGCAC	120
CCTGTCATAA	ATCCCTTGGT	TTGTTATTAC	TAGTTTTTAC	TTTAGACAGC	180
CAAGGAAAAA	TTTAAAAGGA	AAAAATGTCT	TATATTTACC	CTCATGTTTA	240
TGCTCTTTAT	TTCTTTATGT	CAATCCGGAT	TTCAATTTGT	TATCATACTG	300
AATAACAGTT	TAACAGCAAC	TCGAG			335
	TCCAAAGTGC CCTGTCATAA CAAGGAAAAA TGCTCTTTAT	TCCAAAGTGC TGGGATTACA CCTGTCATAA ATCCCTTGGT CAAGGAAAAA TTTAAAAGGA TGCTCTTTAT TTCTTTATGT	TCCAAAGTGC TGGGATTACA GGCATGAGCC CCTGTCATAA ATCCCTTGGT TTGTTATTAC CAAGGAAAAA TTTAAAAGGA AAAAATGTCT	TCCAAAGTGC TGGGATTACA GGCATGAGCC ACCGCATCTG CCTGTCATAA ATCCCTTGGT TTGTTATTAC TAGTTTTTAC CAAGGAAAAA TTTAAAAGGA AAAAATGTCT TATATTTACC TGCTCTTTAT TTCTTTATGT CAATCCGGAT TTCAATTTGT	ACCTTGTTGG CCAGGCTAGT CTTGAACTCC TGACCTCAGG TGATCCACCC TCCAAAGTGC TGGGATTACA GGCATGAGCC ACCGCATCTG ACTGGTGCAC CCTGTCATAA ATCCCTTGGT TTGTTATTAC TAGTTTTTAC TTTAGACAGC CAAGGAAAAA TTTAAAAAGGA AAAAATGTCT TATATTTACC CTCATGTTTA TGCTCTTTAT TTCTTTATGT CAATCCGGAT TTCAATTTGT TATCATACTG AATAACAGTT TAACAGCAAC TCGAG

- (2) INFORMATION FOR CEQ ID NO:1434:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 316 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

GAATTCGGCC	TTCATGGCCT	AATGCTCTGT	GTCACTGTCT	CCCGGTGCTC	AGCACAGACA	60
AGTTCAAGAC	AGATTTTTAT	GATCAATGCA	ACGACGTGGG	GCTCATGGCC	TACCTCGGCA	120
CCATCACCAA	AACGTGCAAC	ACCATGAACC	AGTTTGTGAA	CAAGTTCAAT	GTCCTCTACG	180
ACCGACAAGG	CATCGGCAGG	AGAATGCGCG	GGCTCTTTTT	CTGATGAGGG	TACTTGAAGG	240
GCTGATGGAC	AGGGGTCAGG	CAACTATCCC	AAAGGGGAGG	GCACTACACT	TCCTTGAGAG	300
AAACCACTGT	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:1435:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 383 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

GAATTCTAGA	CCTCCCACCC	TGTAGAACAT	TCTCCTCACT	TAGGAGATAG	TCATATTTTC	60
AGGCTGCCTT	TGAAACTGTG	GGTACACAAA	CAGCAGAGCG	ATCTATTTCA	GCAGTTGAAG	120
TTGTATTTGA	GCCATTATTT	CTTCCACTCT	CTTTTTGGTT	GAGTTTCTAG	GAAGGAAAGG	180
GCTGAACTCC	ATGACTGCTC	ATATTACAGT	GCTAAGTCCT	CACAGCCATC	CACTGTTTAT	240
ACACAAGAAG	AAACTAGGCC	CACCAAGAGT	AAGCGCCTGC	CTGAGGTCCG	TGAGTGAGTA	300
AGGGCCAAAG	GTGAGGTTGG	GATCTGGCCC	TTTCTCTTTT	CTGGCCACCA	CAGGGCACTA	360
CCTCCCATAC	CCACACACTC	GAG				383

- (2) INFORMATION FOR SEQ ID NO:1436:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 303 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GGAGAACTGC	TAAGGTCCAC	AACGTCGACA	ATTGAAAGCT	TTGCTGCACA	AGAAAAACAA	60
ATGGAAGTTT	${\tt GTGAAGTATG}$	TGGAGCCTTT	TTAATAGTAG	GAGATGCCCA	GTCCCGGGTA	120
GATGACCATT	TGATGGGAAA	ACAACACATG	GGCTATGCCA	AAATTAAAGC	TACTGTAGAA	180
GAATTAAAAG	AAAAGTTAAG	GAAAAGAACC	GAAGAACCTG	ATCGTGATGA	GCGTCTAAAA	240
AAGGAGAAGC,	AAGAAAGAGA	AGAAAGAGAA	AAAGAACGGG	AGAGAGAAAG	GAAAGAACTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:1437:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 228 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCGGCC	TTCATGGCCT	AGACTTTTAC	ACATTTTTAT	TAGCTACCTG	GAATTATTTT	60
TGTAACACGT	TAAGTGTAAA	TAAACAAATA	ATGCTTTGCT	TTTTGTTTTC	TGGAATTATT	120
GTTGTATTTC	TTTGCCAAAT	GCATATATCT	TCAGGTCTTT	TTTTTATAAC	CATATGCATA	180
CCAAGGCACC	ATTCCATTGA	CTTTCCAACT	TCTGTCCCAA	CCCTCGAG		228

- (2) INFORMATION FOR SEQ ID NO:1438:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 498 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GTGAATTCCA GTCCCCACCC	AGAAACCCGC	AGCATGATTG	TCTGCCTCCT	TTTCATGATG	60
ATTTTATTGG CAAAGGAAGT	TCAACTGGTA	GACCAAACAG	ATTCACCTTT	ACTTAGTCTC	120
CTTGGACAGA CAAGCTCACT	TTCATGGCAT	CTTGTGGATA	TTGTGTCGTA	CCAGAGTGTG	180
CTAAGTTATT TCAGCAGCCA	TTACCCGCCG	TCCATCATCC	TGGCAAAAGA	ATCTTATGCT	240
GAATTAATCA TGAAGCTCCT	AAAAGTGTCT	GCGGGCCTTT	CTATTCCTAC	TGACAGCCAG	300
AAGCATCTTG ATGCAGTTCC	AAAATGCCAA	GCTTTTACTC	ATCAGATGGT	TCAATTCCTC	360
AGCACCCTGG AACAAAATGG	AAAAATCACC	TTAGCAGTCC	TAGAACAGGA	AATGTCTAAG	420
CTCTTAGACG ATATCATTGT	CTTTAACCCG	CCCGACATGG	ACAGCCAGAC	CCGCCACATG	480
GCCCTCAGCG GTCTCGAG					49B

- (2) INFORMATION FOR SEQ ID NO:1439:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 314 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

					TTAGTTCAGA	60
TGGTCTAACC	ATTGTTCTAT	ATGTGCATTT	TAGTTAATAT	TGTGTATTAA	AGGATAAGTC	120
TTAATGCTCA	AAGTATGTTA	AAAATAGATG	TAGTAAATCA	GTCCCTTTGT	GAATGTCCTT	180
				TTATTAGTCC		240
GCTAGACATC	CTGTACTTAG	TCACGGGGAT	GGTGGAAGAG	GGAGAAGAGG	AAGGGTGAAG	300
GGAAGTGGCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:1440:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 424 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

CCAGCCGTCT	GCAGCTCCGG	CCGCCACTTG	CGCCTCTCCA	GCCTCCGCAG	GCCCAACCGC	60
CGCCAGCACC	ATGGCCAGCA	CCATTTCCGC	CTACAAGGAG	AAGATGAAGG	AGCTGTCGGT	120
GCTGTCGCTC	ATCTGCTCCT	GCTTCTACAC	ACAGCCGCAC	CCCAATACCG	TCTACCAGTA	180
CGGGGACATG	GAGGTGAAGC	AGCTGGACAA	GCGGGCCTCA	GGCCAGAGCT	TCGAGGTCAT	240
CCTCAAGTCC	CCTTCTGACC	TGTCCCCAGA	GAGCCCTATG	CTCTCCTCCC	CACCCAAGAA	300
GAAGGACACC	TCCCTGGAGG	AGCTGCAAAA	GCGGCTGGAG	GCAGCCGAGG	AGCGGAGGAA	360
GACGCAGGAG	GCGCAGGTGC	TGAAGCAGCT	GGCGGAGCGG	CGCGAGCACG	AGCGCGGGCT	420
CGAG						424

- (2) INFORMATION FOR SEQ ID NO:1441:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 346 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

GAATTCGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCCGGCC	TTCATGGCCT	AGTCAGGCTT	60
AAGTTTAATA	AATAGCAAAT	TGCATACAGA	TATTTACAAT	GATCGAAAGA	CAAACAGAGG	120
TCCTATCCGT	GCAGTCCCAA	CAATAAAGAC	AGGCATTGGC	ATANAGTGTT	TATAAATTCT	180
TGGGTACAGC	TGTTCTGAAA	GTAAAGTTCA	CTTTCAATCC	TAAAAAAAGT	CCGCTATTCC	240
TCCCTGGCTG	CTCTGGACTG	TCCTCATCCT	CTTTAGCTGC	TGTTGCGCCT	TCCGCCACCG	300
ACGAGCTAAA	CTCAGGCTGC	AACAACAGCA	GCGGCAGCAT	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:1442:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 591 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC	TTCATGGCCT	AGGCTTCCCT	GTTCCCTCAG	CCCCAGTCGA	GAGGAAAGAG	60
AATCGGGCCA	CTGCCAGAAA	GAGAGTCAAG	CAAACCTGGA	AGGGCAAATC	TGAGAGTGGG	120
AAGGCCAAAG	GCCGAGGCCC	AGATTTAGTA	TTCACTAGCA	GCGCCTTCGG	GTAGCAGGAT	180
GATTCCTTTT	CCTGCCTGTC	TGCTGCTGGC	TCTCTTCCCT	AAGGTACAGG	TTGGCAGGAC	240
CACCTCCGCC	TACTTCTCCA	CCATCCCTAG	CATGCCAGCC	CGTTCCCAGA	TCAACCTGCC	300
AGTGGAGTCA	GGCAGTGCAC	TCCTGGAGCC	AAGAGGGAAG	${\tt GGCAGGGTAG}$	AGAGGGTATG	360
TCCAGTAGCC	TGGAGCTCCA	TGGTGGCTTC	ATGCCTCCCT	TCTCCCAGCT	CAGGTGGCCC	420
TGAGGGCTCC	CTCGGAACAG	TGCCTCAAAT	CCTGACCCAA	GGGCCAGCAT	GGGGAAGAGA	480
TGGTTGCAGG	CAAAATGCAC	TTTATAGAGA	TTTTCTATTG	CTGGGAAGGT	GTGTTTCTCC	540
CACAATTTGT	TTGTGAATAT	TCACTTGTTT	TATAAATGTC	TGACCTGTCC	G	591

- (2) INFORMATION FOR SEQ ID NO:1443:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 526 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC	TTCATGGCCT	AGATTGAATT	ACCTGCCTCG	AGCTCCTGTC	CTTAGGTGAT	60
CTGCCCGCCT	TGGCCTCCCA	AAGTGCTGGG	ATTATAGGAG	TGAGCCACCT	GGCCCAGCTA	120
GCTTTTAAAG	TTCTGCCAGC	ATAGCCCCGG	${\tt GATGGGGTGG}$	GGGTAGACAG	GGCCTTAGGA	180
CTTTCATTTT	TAAAATGCTC	ACTCCACAGT	GAAGAAACAG	GTGATGACTA	TCCTGAATAT	240
TTGGGAAGCT	GTGTCCTAGA	ATTTTTGGCC	TCAGTTCCAG	AACCCACAGC	TTCTTTACAA	300
CATGCTTCAA	GCCTGGGACT	GAGCTGCCAG	TAAATAAACC	CCTAGTAACC	TTAATATGGG	360
TTAATAAGAT	TAGGTGCCCG	CTCTGCACGC	TCCCCTGCCC	CTCCTCGTCC	GGGCACCTGT	420
TATGCTAGGC	CAGCATGTTT	GCAGCTTAGC	CAGGGAAAAT	CGTGGACCAA	GACAGGGCTT	480
TTCATCCACG	ACTGGCTAAA	AAGATGGCTC	TCAATAATAT	CTCGAG		526

- (2) INFORMATION FOR SEQ ID NO:1444:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 279 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GATTGAATTC	TAGACCTACC	TCTCTTTTTT	TGTGGTCTCT	CCTTCATTCT	CTGTTCATTT	60
CTCCGTGAGA	TTTTCTGATT	AGTAGTTACC	TTCAGCATGC	CAGTTGACTT	GCAAACCTAC	120
AATCCAACCT	TTCTTCTACT	TTGTCATCTG	ACAACAGCCT	GGTTTGTAGC	TGATTCCAGG	180
ACTTCTTCAC	TTGGGTGGCC	ACTCTCATTA	CCACAGAGTT	CACTAGTCAT	GGTGAACACA	240
CCAGTCTTTT	ACACCTCCCT	CACTCCCAAA	CCACTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1445:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 644 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GAATTCGGTC	TTCATGGCCT	AGGGGAAGAA	AGGCACCTTT	CTCACAGGGT	GGTGAGAGAG	60
AGGAAGGGGG	ACGGGGAAAG	CCCTTTATAA	AAGCATCAGA	TCGGCTGGGC	ACAGTGGCTC	120
		TTGGGAGGCC				180
GAGGCCGGCC	TGGCCAATAT	GGTGAGACCC	CGTCTCTGCT	GAAGATACAA	AAATTGGCTG	240
GGCATGGTGG	CGGGCACCTG	TGGTCCCGGC	TGCTTGGGAG	${\tt GCTGAGGCGG}$	GAGAATCGCT	300
TGAGCCCGGG	AGGCAGAGGT	TGCAGTGAGC	TGAGATCGCG	CTACTGCACT	CCAGCCTGGG	360
CAACAGAGCG	AGACTCCATC	TCAAAAATAA	AAGAAAGGCA	TAAATATTAC	ATTACCCTCT	420
GAATACTGTG	GTTGTATACT	TGAGTTTTTA	TGTGTGTATA	TATATGTGTA	TAGGAGAGTA	480
TAAAATAAAAT	GAAATTAGGA	TTTTGCAAGT	TATAATCATA	TAAAATTGAT	TACCCTAAAT	540
ATATCATTAG	GATATTATGT	TATTTACATC	TCTTATGCTA	ATTCTAATTT	TCTTTTATTG	600
TAGTATAGTA	GAATTGAGAT	TTGNNAATGG	AATTGGTCCT	CGAG		644

- (2) INFORMATION FOR SEQ ID NO:1446:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 756 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

- (2) INFORMATION FOR SEQ ID NO:1447:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 359 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GAATTCGGCC TCATGGCCT ACCTGCCTCG AGGTCACTGG GATCATCTGA ACAGAAGTGC ACAGGCTACT TGTACAGAGA AAAATTAAT ACTCAAAGGA AATCTTCATT TTTTAGATTG ACTTTGGGAA TTTGAATTTT CATCAGTGCA AATATAAATT TCTCTATCCT GCTCTGAGGC TAATTGGTAC CATATTTCC CTTTGTGTCT TGTGACTCTG CCACATCCCA TCTCATCCTG GCCTCTGAGT CAAGAACCCA GTGAACTGAC TTTCTAGTTC TAGAAGTTCC GCTGCAAGGC CAGGAAAGGT TGAGAAAGGT ATTGTGGAAG AAGCAAAGGT AGACCCCCAT TCACTCGAG	60 120 180 240 300 359
(2) INFORMATION FOR SEQ ID NO:1448:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 146 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:	
GAATTCGGCC TTCATGGCCT AGGGAAAATA AGTTAATTCT AAATCAAATC	60 120 146
(2) INFORMATION FOR SEQ ID NO:1449:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 308 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:	
GAATTCGGCC TTCATGGCCT ACTTTCAAA AGCAGCTTTG CTCTACTGAT TTGGGTAAAA GCTAGTTGC AGTTGGNTTG GGAGGAAATG GGAGCAGAAA ATTTGAGAGA GTGAGTGTAG ACAACTCTTT CAAGGAATTT CGCTATAAAT GGGAGGTAGAG ATCTGAAGAC TGAATAATTA GCAAACTGAA AAGTGGGAAG ACGTAATTCT CTTATTATTT CATTTTCTT AGTGAAATAA GAGGTGAAGT TCTCTGAGTA ATAGGAGGGT CAAACAGGNG TTAGAAGTTC ACAAAGAAAG GTCTCGAG	60 120 180 240 300 308
(2) INFORMATION FOR SEQ ID NO:1450:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 545 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:	
GAATTCGGCC AAAGAGGCCT AGCATGTTGT GGCTGTTCCA ATCGCTCCTG TTTGTCTTCT GCTTTGGCCC AGGGAATGTA GTTTCACAAA GCAGCTTAAC CCCATTGATG GTGAACGGGA TTCTGGGGGA GTCAGTAACT CTTCCCCTGG AGTTTCCTGC AGGAGAGAAG GTCAACTTCA TCACTTGGCT TTTCAATGAA ACATCTCTTG CCTTCATAGT ACCCCATGAA ACCAAAAGTC CAGAAATCCA CGTGACTAAT CCGAAACAGG GAAAGCGACT GAACTTCACC CAGTCCTACT	60 120 180 240

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:  GAATTCGGCC AAAGAAGGCCT ACAGTAACCA GATGAACTTG CTTGCTGTTC TCGAAGTGAG GACTGAAAGG AACGAAAACT GGGGTGGGTT TTTGCGCTTC AAAAAGGGGA AGGGATGTAG GACTGAAAGG CATCGAATC CAAGTAACACA AAAGGAGCA CACCACACACA CCTCGTTTTT GGACTGAATA TAATGACCTT GGTAAATGGCT TCTTACATCC TTTCTGGGGC CCTCGATTTT GGACTGATAA TAATGACCTT GGTAAATGGCT TCATCACCCAG GACTCCCCAG CCACCAAGAG CTTCGAATC CATCACCTTT CCATTAAGGA GGGTTCCCAG GAACCCCAG TTGATGGAC AGGGAAAACC CAAGTGACAC AAAAGGAGCAT CACCACCAAT CCTCTGTAAA  (2) INFORMATION FOR SEQ ID NO:1452:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:  GAATTCGGCC CAAGAAGACA GAATTCCA ACATCATGAC CTCACTTTCA ACACGGTTGT TCTTTGGAAC CTCAAGCCCT CAAGATTCCA ACATCATGAC CTCACTTTCA ACACGGTTGT TCCTTGAGAC CTCAAGCCCT CAAGATTCCA ACATCATGAC CTCACTTTCA ACACGGTTGT TCCTTGAGACA CTATGACCT CATTGTGTC TCTCTTGTTG GGAAGACGTAT AAACCTCACCC CATGACACT CATGTCACTG CTTTTGGTGC TCCCTGTTGT GGAAGACGTAT AAACCTCACCC TGAAAAACCTT TGCAGCACT CAAGATTCCA ACATCATGAC CTCACGTTCA AACCTCACCC (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (iii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAC CCCTGCTAC TTCAATGTCT AGGTCACCCA (A) AGAATACTTA TTTATGGTCT TTTTTCACC TGATTTTTGT CAATTGTCT AGGTCACCCA (C) TRANDTTATT TTTATTGTCT TTTTTCACC TGATTTTTTGT CAACTAGGAC CTCTCTTTTTTTTTT	CAAAGACCTC TACAAGTTAC	C CAGCAACCTG AAGATGGAAG ACACAGGCTC TTACAGAGCC CAGATATCCA C TGCAAAGCTG TCCAGTTACA CTCTGAGGAT ATTAAGACAA CTGAGGAACA C CAATCACAGT CAGCTATTC AGAATATGAC CTGTGAGCTC CATCTGACTT A GGATGCAGAT GACAATGTCT CATTCAGATG GGAGGCCTTG GGAAACACAC	360 420 480 540 545
(A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:  GAATTCGGCC AAAGAGGCT ACAGTAAGCA GATGAACTTG CTTGCTGTTC TCGAAGTGAG GACTGAAGGG AACGAAAACT GGGGTGGGTT TTTGCGTTC AAAAAGGGGA AGCGATGTAG CCTCGTTTTT GGACTGATA TAATGACCTT GGTAATGGCT TCTTACATCC TTTCTGGGGC CCACCAAGAG CTTCTGATCT CATCACCTTT CCATTACGGA GGGTTCCCCA GCAACCCCAG TCTGATGATC AGCGAAAACC CAAGGAGCAC AAAGGAGCAT CACCACCAAT CCTCTGTAAA TAATATTCA TACATGAAGG GAACCCTCGA G  (2) INFORMATION FOR SEQ ID NO:1452:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:  GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAACTCTTCA ACACCAGTTGT TCTTTGGAAC CTTCAGCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACCAGTTGT TCTTTGGAAAC CTTCAGCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACCAGTTGT TCCTTAGTCT CATGTCACTG CTTTGGTGC TCCCTGTTGT GGAAGCAGTA GAAGCGTATA 180 TCCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC TCAAGAACT TGCAGCACTC GAG  (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: CAAGATGTCA TCCAGGTCA ACCTCACCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA  60 TTTGTTTTATT TTTATGGTCT TTTTTTCATCC TGATTTTTG TCATTTGGTC CGGTCTTATG 120 TCAATCAGGCC AAAAGAGGCCT TATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA 120 TAATATTTTAT TTTATTGGTCT TTTTTTCATCC TGATTTTTG TCATTTTGGTC CGGTCTTATG 121 TCAATCAGGCC TAATTTTTAATC TGATTCTTA CATTTTGGTC CGGTCTTATG 120 TCAATCAGGAGAAAATT CTAAGAGGCCC 120 TAATATTTTAT TTGAATCCT TATTTTTATC TAATGTCTT AGGTCTATAGAAATT TCAATGGGCCC 120 TAATATCTTATT TTTATTGGTCT TTTTTTCATCC TGATTTTTGGTCT CATTTTTGGTC CGGTCTTAT	(2) INFORM	NATION FOR SEQ ID NO:1451:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:  GAATTCGGCC AAAGAGGCCT ACAGTAAGCA GATGAACTTG CTTGCTGTTC TCGAAGTGAG GACTGAAGGG AACGAAAACT GGGGTGGGTT TTTGCGCTTC AAAAAGGGGA AGCGATGTAG 120 CCTCGTTTTT GGACTGATCA TAATGACCTT GGTAATGGCT TCTTACATCC TTTCTGGGC CCTCGATGAC ACCGAAAACC CAACTGACCTT CCATTACGGA GGCTTCCCCA GCAACCCCAG CTTGATGGAC ACCGAAAACC CAACTGACACTT CCATTACGGA GGCTTCCCCA GCAACCCCAG CTTGATGGAC ACCGAAAACC CAACTGACACT CACCACCAAT CCTCTGTAAA 300 TAATATTTCA TACATGAAGG GAACCCTCGA G  (2) INFORMATION FOR SEQ ID NO:1452:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:  GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAATCTAT ATATACCATT 1CTTTGGGAC CTTCAGCCCT CAACATTCCA ACATCATGAC CTCAGTTTCA ACACACTTTT 1CCTTAGTCCT CATGTCACCT CTTTGGTGC TGCCTGTTCT GGAAGCAGTA GAAGCTATA 1EQCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC 1CAAAAACCTT TGCAGCACT GAG  (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTTAC TTCAATGCT CCCTCTTATG 120 CATTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	(i)	<ul><li>(A) LENGTH: 331 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
GAATTCGGCC AAAGAGGCCT ACAGTAAGCA GATGAACTTG CTTGCTGTTC TCGAAGTGAG GACTGAAGGG AACGAAAACT GGGGTGGGTT TTTGCGCTTC AAAAAGGGGA AAGGAATGTAG CCCCCCACTACAGG AACGAAAACT GGGATGAGCTT GGTAATGGCT TCTTACAGC TTCTTGGGGC CCACCACAGG CTTCTGATCT CATCACCTTT CCATTACGGA GGCTTCCCCA GCAACCCCAG CCTGATGGAC AGGGAAAACC CAAGTGACAC AAAGGAGCAT CACCACCAAT CCTCTGTAAA 300 331  (2) INFORMATION FOR SEQ ID NO:1452:  (i) SEQUENCE CHARACTERISTICS:	(ii)	) MOLECULE TYPE: cDNA	
GACTGAAGGG AACGAAACT GGGGTGGGTT TTTGGGCTTC AAAAGGGGA AGCGATGTAG CCCTCGTTTTT GGACTGATAA TAATGACCTT GGTAATGGCT TCTTACATCC TTTCTGGGGC 180 CCCACCAAGAG CTTCTGATCT CATCACCTTT CCATTACGGA GGGTTCCCCA GCAACCCAG CCTGATGGAC AGCGAAAACC CAAGTGACAC AAAGGAGCAT CACCACCAAT CCTCTGTAAA 300 TAATATTTCA TACATGAAGG GAACCCTGA G  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:  GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAATTCTAT ATATACCATT 10CTTTGGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT 10CTTTGGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT 10CTTTGGAAA AGAAATGGAC ACATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC 11GAAAACCTT TGCAGGCACT GAG (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCC 10TTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCCCTGTTTTTGGTC CCTGTTTTTGGTC 120 GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA 10TTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCCTGTTTTTGGTC 120 GAATACTGGCC AAAGAGGCCT AATTTTAAAG CCCTGGTAAC TTCAATGTCT AGGTCACCCA 10TTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGGT CCGTCTTTATG 120 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTATAC ATGAAAAAATT GTAGAGGGCC 120 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTCTAC ATGAAAAAATT GTAGAGGGCC 120 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTCTAC ATGAAAAAATT GTAGAGGGCC 110  120 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTCTAC ATGAAAAAATT GTAGAGGGCC 110  121 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTCTAC ATGAAAAAATT GTAGAGGCCC 111 CCTCTTTTTTCATCC TGATTTTTCG TCCTCTTTATG 120 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTCTAC ATGAAAAAATT GTAGAGGCCC 110 CCTCTTTTTTTTTTCATCC TGATTTTTCG TCCTCTTTTTTCGTC CCGTCTTTATG 120 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTATAC ATGAAAAAATT GTAGAGGCCC 11	(жі)	) SEQUENCE DESCRIPTION: SEQ ID NO:1451:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:  GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAATTCTAT ATATACCATT (CCTTTAGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT 120 CCTTAGTCCT CATGTCACTG CTTTTGGTGC TGCCTGTTGT GGAAGCAGTA GAAGCGTATA 180 TGCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC 240 TGAAAACCTT TGCAGCACTC GAG  (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA 60 TTTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG 120 SCATACCTGG TAATATTTA TTGAATCCTT AGTACTGTAC ATGAAAAAATT GTAGAGGCCC 180	GACTGAAGGG CCTCGTTTTT CCACCAAGAG CTTGATGGAC	AACGAAAACT GGGGTGGGTT TTTGCGCTTC AAAAAGGGGA AGCGATGTAG GGACTGATAA TAATGACCTT GGTAATGGCT TCTTACATCC TTTCTGGGGC CTTCTGATCT CATCACCTTT CCATTACGGA GGCTTCCCCA GCAACCCCAG AGCGAAAACC CAAGTGACAC AAAGGAGCAT CACCACCAAT CCTCTGTAAA	120 180 240 300
(A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:  GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAATTCTAT ATATACCATT ICTTTGGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT ICCTTAGTCCT CATGTCACTG CTTTTGGTGC TGCCTGTTGT GGAAGCAGTA GAAGCGTATA IBO IGCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC IGAAAACCTT TGCAGCACTC GAG  (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA ITTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGT CCGGTCTTATG JCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAAATT GTAGAGGCCC 180	(2) INFORM	ATION FOR SEQ ID NO:1452:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:  GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAATTCTAT ATATACCATT  CCTTTGGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT  CCTTAGTCCT CATGTCACTG CTTTTGGTGC TGCCTGTTGT GGAAGCAGTA GAAGCCTATA  IGCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC  IGAAAACCTT TGCAGCACTC GAG  (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 558 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA  ITTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG  GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC  180	(i)	<ul><li>(A) LENGTH: 263 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAATTCTAT ATATACCATT TCTTTGGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT CCTTAGTCCT CATGTCACTG CTTTTGGTGC TGCCTGTTGT GGAAGCAGTA GAAGCGTATA 180 TGCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC TGAAAAACCTT TGCAGCACTC GAG  (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA TTTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC 180	(ii)	MOLECULE TYPE: cDNA	
TCTTTGGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT  CCTTAGTCCT CATGTCACTG CTTTTGGTGC TGCCTGTTGT GGAAGCAGTA GAAGCGTATA  IGCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC  TGAAAACCTT TGCAGCACTC GAG  (2) INFORMATION FOR SEQ ID NO:1453:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 558 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA  TTTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTGGTC CCGTCTTATG  GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC  180	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1452:	m².
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 558 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA  FITGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG  GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC  180	TCTTTGGAAC CCTTAGTCCT TGCACGAAAA	CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT CATGTCACTG CTTTTGGTGC TGCCTGTTGT GGAAGCAGTA GAAGCGTATA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC	120 180 240
(A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA ITTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC 180	(2) INFORMA	ATION FOR SEQ ID NO:1453:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:  GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA 1TTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG 120 9CATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC 180	(i)	<ul><li>(A) LENGTH: 558 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	
GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA 60 ITTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG 120 GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC 180	(ii)	MOLECULE TYPE: cDNA	
ITTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG  3CATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC  180	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1453:	
	TTTGTTTATT GCATACCTGG	TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC	120 180

GGTTATATAC	CTTACTCCAA	TCAAAGATTG	AGCTGAGTCA	GAACTCTAAG	GGAGTTAAGT	300
TTTTGTGTCC	TCTGGGGACC	AGGGGTTCCA	ACTAAGACTG	TGATATTCAC	CAGGATCCAA	360
TTTCCCGATG	CCTCTTGAAC	TCTTATTCTT	ATCTTTTTAA	CACATCAAGG	CAGCTGGTTT	420
GCATTTTTCT	TTCTGTTCAG	CTTTTTAGCT	TCATCCTTTG	CAGCTTTAGA	AATTGACAGT	480
TGTCTTACAG	GGAAAAGTAG	CTGTGTAACA	AGCTCATGTC	TCTGCCTCTC	TTCCACTGAT	540
ATCTTAGCCC	CGCAGGAG					558

- (2) INFORMATION FOR SEQ ID NO:1454:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 328 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

GAATTCGGCC	AAAGAGGCCT	ACCTAAACCG	TCGATTGAAT	TCTAGAAATA	CAATGATTTT	60
AAAAAAGATT	TCCAAAGGCT	TTTTCTTTTT	TTCTTTTTC	TNGAGACAGG	GTCTCACTCT	120
GTCGCCCAGG	CTGGAGTGCA	GTGACACAAT	CTCGGCTCAC	GGCAAGCTCC	GCACTGCCCC	180
CTCAGGTTCA	CGCCATTCCT	CCGCCTCAGC	CTCCCGAGCA	GCCGGGACCA	CAGGCACGCG	240
CCACCACGCC	CAGCCAACTT	TTACATTTTT	AGTAGAGACG	GGGCTTCACC	ATGTTGGCCA	300
GGATGGTCTC	GGTCTCTTCT	GCCTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:1455:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

GAATTCGGCC	AAAGAGGCCT	ACTTGATGTC	TGTGACCCAC	ACNTATTCGC	ACACTCCCTC	60
CCCTTTTGAA	AATCCCTAAT	AAAAACTTGC	TGGTTTTTGC	GGCTAGTGGG	GCATCATGGA	120
ACCTACTGAC	ATGTGATGTC	TCCCCCGGAT	GCCCGGCTTT	AAAATTTCTC	TCTTTTGTAC	180
TCTGTCCCTT	AATTTCTCAA	GCTGGCCGAT	GCTTAGGGAA	AATAGAAAAG	AACCTAGGTG	240
AATATTGGGG	CAGGCTCCCT	GATGAAATGA	TATATATTCT	TAAAATAAAC	TTTTCATCTT	300
TGCATATACG	TTTATATGCC	GAGTTTTCTC	CAACCTTGTC	TTACAGCACT	TTGTATACTA	360
CATTCTAGCC	ATACTAAACT	CTTGCAGTTC	CTGAGACATG	TGCTGTATCC	TATTTCTTCT	420
GGTCCTTTTC	TCATTGATTA	ACTACCTGGA	GCATACTTTT	AATTCAGTGT	CAGCGCTCGA	480
G .						481

- (2) INFORMATION FOR SEQ ID NO:1456:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GAATTCGGCC AAAGAGGCCT ACTTCACCTT CAAGTCCCCT TTCTCAAGAA TCCTCTGTTC TTTGCCCTCT AAAGTCTTGG TACATCTAGG ACCCAGGCAT CTTGCTTTCC AGCCACAAG AGACAGATGA AGATGCAGAA AGGAAATGTT CTCCTTATGT TTGGTCTACT ATTGCATTTA GAAGCTGCAA CAAATTCCAA TGAGACTAGC ACCTCTGCCA ACACTGGATC CAGTGTGATC TCCAGTGGAG CCAGCACACTCT GGGTCCAGTG TGACCTCCAG TGGGGTCAGC ACAGCCACCA TCTCAGGGTC CAGCGTGACC TCCAATGGGG TCAGCATAGT CACCAACTCT GAGTTCCATA CAACCTCCAG TGGGATCAGC ACG	60 120 180 240 300 360 393
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 266 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:	
SAATTCGGCC AAAGAGGCCT AGTGTGTGTG TGTGTGTGTT TTATCTCCTT CAACTCTGAC CACCTGGAAG TCAGCCTAAT CTCTGCCCTC GTGTTGATCT TTAATTCAAC ATTTAATTAC CTATCTTGGT ATCCATATGA ATTTGATTGT TTTTTTTGAAC CCATAAAAGG TATCCAAGTT CCTGGAGGGC ATAGTGCCCA TCTCCTCCCA TCCACCAGTG SACATTCTTT TCCAAAAGAC ACATGG	60 120 180 240 266
(2) INFORMATION FOR SEQ ID NO:1458:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:	
SAATTCGGCC AAAGAGGCCT AGGTTGTAGT TACTTTCAGA GTAGATACAG GGTTTTAGAT CATTACAGTT TAAGTTTTCT GACCAATTAA AAAAACATAG AGAACAAAAG CATATTTGAC CAAGCAACAA GCTTATAAATT AATTTTTATT AGTTGATTGA TTAATGATGT ATTGCCTTTT CCCCATATAT ACCCTGTGA TCTATACTTG GAAGTGTTTA AGGTTGCCAT TGGTTGAAAA CATAAAGTGTC TCTGGCCATC AAAGTGATCT TGTTTACAGC AGTGCTCTCG AG	60 120 180 240 292
(2) INFORMATION FOR SEQ ID NO:1459:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 289 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:	

60

120 180

GAATTCGGCC AAAGAGGCCT AGTTTTATGA GAGGGTTTCC ATTAAGAAGT TAATTGAAAT

TCTTTATTTA TGTAAAATGA AATTTCCAAT TAAATTATTT CACACAGCAT TTTTTCCCCT TAATTTCATT AGTTTTTTA TTTCTTGGCC GACCCAGGCC AGGAGCTTAG GGAAAATGAT

GCACTCACCC ACGACTGACA CATGGGGTAC ACACACACA ATACTCGAG

(2) INFORMATION FOR SEQ ID NO:1460:

(i) SEQUENCE CHARACTERISTICS:

GAGGCCTCTT TTACGCTGTA GTCCTGCAAA TGCTGTGTTT TATTCCCCCT CCCCTGCTCA

240

<ul><li>(A) LENGTH: 330 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:	
GAATTCGGCC AAAGAGGCCT ACACCTGCGT TGGAACATCT GATCCAGTGA CTAGGTGCCT TAATTAATAA AGCCAAAATA TCTTTCCACT AGCAAACTAA TTTTACTCTC CCATTTTTAA TTAATCTTTC CTATTTCATT TCACCCTCTC TCTATTGGAT TATCTCAGGT ATCTAATCCA ATTCACTACT GTTTAATGAA ACCAGTCTGC AATTCCTAAG GTTTTGTTTC TTTGCTTTTT TCTTTTGTAG TGCTACACTC AAGCAGGTCT AGAATTCGAG	TCGTATTCAC 120 ATCTCTTTCC 180 TGTAATTGCA 240
(2) INFORMATION FOR SEQ ID NO:1461:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 383 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:	
GAATTCGGCC AAAGAGGCCT AGGGACAGTG ATTATAGGAC TCCACACATG TAGCATTACT GACTTTAAAT TTTTTGAGCC TATCTAAAGG CCAGATGCTA AACGGCATCT ACCAAAACCA GCTGCAAAGA TAGAAGCGGA ACAACTGGTT ATTCGATAAC AACGAGTTGG GAAATAGGTA AAATAATAAC ATGGGTAGA GTGTTTCTCC AGGCCAAAAC CAGCAGCTGA TTTGGATACC ATCAAGATAC ATCATCAGCC AGATGCCAAG GAAGAGATTT TGGGAGGAAC CCGAGGACCC TTTTACCTAT TCCCCAACTC GAG	TCAGCAGCTG 120 TGGTGGAGAG 180 GGTTATGCTT 240 CTGAAAACTT 300
-	•
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 375 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:	
GAATTCGGCC AAAGAGGCCT ACGATGACGT CACCGTCACC ACCGGCGTGA TGGTGAGGGC TTCTGGACTG GATGGAGGAC CTGAAGACAT GAGGTGGAGG AGAGAAGATT CTCACCATCG CTGATTCACA CAAAAGCATT TCTCCAAGTG ACATGATTTC CCAAAGTGTT AGAGCTGAAG TGTGTTTCCT TGTGTATATA CCTTTATCCC TTCATCTGTG GATAGACAGG TGCAACCGTG TGGTTCCCCA	CACAGGTAGA 120 GTTGCAGATG 180 TACTGTGGTT 240
578	•

TCATTGTGGT TTTCTGTCTG AAGAGTATCC CAGTATGTAC CTGTGGAGCA GCTTCTTTAT

CCCTTCTTAC TCGAG	375
(2) INFORMATION FOR SEQ ID NO:1463:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 174 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:	
GAATTTGGGC GGAGACACAA ATTCAAATCA TATCAACCTG GTAAAGAATT TGGATTTTAT TTTGAGTGTG TTAGTGAGTA TTGCATGGCT TTGAGCAGAG AAAGGATGAT TTATATGTTT AAAAGAGTGC TTTGCCTCTT ATATGTGGAA GAGATTGTAG GAGGAGGACT CGAG	60 120 174
(2) INFORMATION FOR SEQ ID NO:1464:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 122 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:	
GAATTCGGCC AAAGAGGCCT AGTTGCGGTT TAAATTTCCA AATGTATGGC ATTTGCTTGT TTTTTAAGTT GATTTCTAGT TTTATCACAT TGTGGTCAGA GAATGCTGAG AAAGAGCTCG AG	60 120 122
(2) INFORMATION FOR SEQ ID NO:1465:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 315 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:	
GAATTCGGCC AAAGAGGCCT ACTTGAGCTT TTTTCATGTG TATATATTTA TGCTTCTTTT CTAAAAAAAA TTGAGATGGA AATTCACATA ACAGAATTAA CTAAAGCATA CATTTCATTG GTATTTACTA CATTCACAAT GTTGTGCAAT CATTACCTCT CTCCAGITCT AAACATTTCA TCACCCCAAA AGGAACCCCT AAGCGGTCAC TCCCCACTCC ACTGTCTCCC ACAGCCCCTG GCAACCAGCA GTCTGCTTTG TGTCTCAATG GATTTACCTA CTCTTGATAG CTCTACAAAT GGAACAATAC TCGAG	60 120 180 240 300 315
(2) INFORMATION FOR SEQ ID NO:1466:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 175 base pairs  (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GAATTCGGCC	AAAGAGGCCT	AGGTAAGAGA	AACGACCAAT	TCTACCAGTT	ATTCTACAAT	60
GTGGGTTTTC	ACTGCTCTGT	TCACATGCCT	TATTCAGACT	TCTTGTGGTG	GTCAATTGCT	120
AGATGGTCTG	TTGGAATTAT	CTGCTGTCAT	ACATCCAAAA	AGGTCTCACA	GAGAG	175

- (2) INFORMATION FOR SEQ ID NO:1467:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GAATTCGGCC	AAAGAGGCCT	AGAAGGACAC	CTCCATCCAT	TCCACGCAGT	TGCTCAAAGC	60
AGAAATTTTC	AGTGCAAGTC	TTGATGCTGC	GCCGTCCCCC	ACTCCCTACA	TCAGAACGCA	120
TCCCTCATCT	GGACTCCAGC	GGTGGCTTCT	TGATGCTGCG	CGGTCCCCCA	CTCCCTACAT	180
CAGAATGCAT	CCCGCATCCA	GACTCCAGCG	GTGGTGCTCT	ACCTGCACGC	TGTTGCCAAG	240
TCCAAGCTAC	CATACTCCTG	CCTGAGCTAT	GACAACAGCC	TCCTCACTGA	TCTCCCCTTT	300
CTTCCCTTTG	CCTCCTCCAG	CTCATTTTTC	ACAGTGTAGA	ATGACTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:1468:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 419 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC	AAAGAGGCCT	ACTATACTAA	AATTCTGTGC	AAAAAGATGC	TTGAAATTAT	60
TGTAGAGACT	${\tt GAATCTTTGC}$	TGCTTGTTAT	AAATATTGCA	GGGCATAAAC	CTTCCATTCA	120
TAGGTTCATC	AGCTTTTATG	ATTGGGAGTG	ACAGGGAGGC	AGCATTGCAG	TCCTTAGTCC	180
TAGGTGTGGT	CTAGAATTTA	CCCTGTATTT	AAGTCACTTT	GGAATAGAAG	TTTTTTTTCT	240
CGGACAGGAT	ACACTATATA	TTTTTAAATC	TCCTCCCATA	GTCGTAGTGC	AGAGATATAA	300
ATAGAAGTAC	AGGTAAGAGA	TGTCTTCTGC	CTTTCAAACC	CTTCCTAAGT	TTGTGTGCTG	360
CTTTAACTTT	ATTCACATAG	AGCAGTCTGT	ጥጥተልጥተልርጥር	ACCATATCCC	CCACTCGAG	419

- (2) INFORMATION FOR SEQ ID NO:1469:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 612 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC	AAAGAGCGAT	GGGGACAAAG	GCGCAAGTCG	AGAGGAAACT	GTTGTGCCTC	60
TTCATATTGG	CGATCCTGTT	GTGCTCCCTG	GCATTGGGCA	GTGTTACAGT	GCÁCTCTTCT	120
GAACCTGAAG	TCAGAATTCC	TGAGAATAAT	CCTGTGAAGT	TGTCCTGTGC	CTACTCGGGC	180
TTTTCTTCTC	CCCGTGTGGA	GTGGAAGTTT	GACCAAGGAG	ACACCACCAG	ACTCGTTTGC	240
TATAATAACA	AGATCACAGC	TTCCTATGAG	GACCGGGTGA	CCTTCTTGCC	AACTGGTATC	300
ACCTTCAAGT	CCGTGACACG	GGAAGACACT	GGGACATACA	CTTGTATGGT	CTCTGAGGAA	360
GGCGGCAACA	${\tt GCTATGGGGA}$	GGTCAAGGTC	AAGCTCATCG	${\tt TGCTTGTGCC}$	TCCATCCAAG	420
CCTACAGTTA	ACATCCCCTC	CTCTGCCACC	ATTGGGAACC	${\tt GGGCAGTGCT}$	GACATGCTCA	480
GAACAAGATG	GTTCCCCACC	TTCTGAATAC	ACCTGGTTCA	AAGATGGGAT	AGTGATGCCT	540
ACGAATCCCA	AAAGCACCCG	TGCCTTCAGC	AACTCTTCCT	ATGTCCTGAA	TCCCACAACA	600
GGCGCACTCG	AG					612

- (2) INFORMATION FOR SEQ ID NO:1470:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 220 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAAAAGCCAA GACI	TTTAACT TTCATTACA	ATCTAATAGT	TGATATCACC	AGTTACCATT	60
TTGAATTTTG TATA	AGTACTA GGTTAGAAC	TTGCTTAATC	CTTTTAAAAA	AAATGCATTT	120
ACGTAGAACT CGAG	GCAGGAT GTTTGGCCC	GATGTTTTTT	CTTCATACTC	TTCTGTCGCC	180
TCCTCCCATT TCTC	GCACAGT TCTCACCCA	TACTCTCGAG			220

- (2) INFORMATION FOR SEQ ID NO:1471:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 349 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC AAAGAGGC	CT AGGGCATCAT	GCAGACACAT	CTGTTAAAGC	AGGAAAAAA	60
AAACCATGTG GAAGATTA	AG CTAGGCAGAG	TGCCTGAAAA	GCCCTCTGCA	ATAAGTTGAG	120
CTGGAAAAAC CTCCATAT	CT AAAGATGCTT	TAATCATCTC	AAGAACACCA	ACAACATTTT	180
CTATTATAAT ATAACTAT	GA TAGATGTGAA	TCTACCTCTT	GGATTAAGGC	AATAATTTTA	240
TAGCTATCAA ATTTTCAC	AG ACACCATTT	CACTACTCTG	AGTTGCATCT	CTAACAAGCT	300
TCTTTAGCCT CTGCCTAC	AG ATTTCAGTGA	CAAAGCCATT	CAGCTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:1472:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 310 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCGGCC	AAAGAGGCCT	ACAACAAACC	ATTCTTCAGC	ACCTTTGCAA	AAACATCTAT	60
GTTTGTTTTG	TACCTTTTGG	GCTTTATTAT	TTGGAAGCCA	TGGAGACAAC	AGTGTACAAG	120
AGGACTTCGC	GGAAAGCATG	CTGCTTTTTT	TGCAGATGCT	GAAGGTTACT	TTGCTGCTTG	180
CACAACAGAT	ACAACTATGA	ATAGTTCTTT	GAGTGAACCT	CTGTATGTGC	CTGTGAAATT	240
CCATGATCTT	CCAAGTGAAA	AACCTGAGAG	CACAAACATT	GATACTGAAA	AAACCCCCGC	300
GGTACTCGAG						310

- (2) INFORMATION FOR SEQ ID NO:1473:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 297 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

GAATTCGGCC	TTCATGGCCT	ACAACTTTAA	GATTAGCTAC	TTTGAATAAT	CTCAGTAGGT	60
TCTGGGGCAC	AGGAGCTGCC	CCTCTTGGTC	TGAGATTTGG	CCATGGGGTG	ATTAGGACAG	120
GTATAGTGGC	ACAGAGTGTA	AAAACCCCAT	AATGGTGTGG	ATTCTGGATT	GCTTAGTTTG	180
CATTTGACAA	GTGCATGCCT	GGGAGGAGGA	CTCCTCTTAG	TAAAGAGGAT	GGGAGGCAAG	240
AAGAGAGGCC	AGAGGCCAAG	ACAAGGTAAC	TTAGGCATAG	CATCAGGTTG	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:1474:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 510 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

GAATTCGGCC	TTCATGGCCT	AAAAAAGTAT	GCAACACTCA	GTTTATTTAA	TACTTACAAG	60
GGGAAATCAT	TAGAAACACA	GAAAACCACA	GTTGCAGCTC	GACATGGATT	ACAGAGTCTT	120
GGAAAAGTCG	${\tt GTATTTCACG}$	GCGTATGCCT	CCACCTGCTA	ACCTCCCAAG	TCTTAAAGCA	180
GAAAACAAAG	GCAATGATCC	TAATGTAAAC	ATTGTACCTA	AAGATGGCAC	AGGGTGGGCA	240
TCAAAACAAG	AGTAACATGA	AGAAGAAAA	ACACCAGAAG	TGCCACCAGC	ACAGCCAAAA	300
CCTGGGGTTG	CAGCTCCCCC	AGAAGTAGCA	CCTGCTCCCA	AATCATGGGC	CAGTAACAAG	360
CAAGGTGGGC	AAGGAGATGG	AATCCAAGTG	AATAGTCAGT	TTCAGCAAGA	ATTTCCCAGC	420
CTGCAGGCAG	CTGGGGATCA	GGAAAAAAAA	GAAAAGGAAA	CAAATGATGA	CAACTATGGA	480
CCTGGACCCA	GTTTACGTCC	ACCACTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:1475:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

GAATTCGGCC	TTCATGGCCT	AATCCATTCA	TTTGATGGAC	ATTTTCTAAG	TACCTGTGAG	60
CCAGGTGCTG	CCATTTCAAA	GTCTCTTCTT	ACCACGCTCC	TCAGTGGCTA	GACATTTTCA	120
CGTGGCCAGA	AAGTCCCGAC	TCTTGCTGGG	CGTCCCTGGA	CAAGTTGCCT	TCCTCCTCTG	180
AGCTTGGCGC	TCCCCATCTG	TATAGTGGAG	ACCCTTGGCC	CCCCTCTGTA	CGGAAGGGCC	240
GATGCGAAGC	TGCAGTTAAA	AAAGGCTCAC	ATGCTCCTAG	CCTTGTGCAG	TCAGGAGGGG	300
AGACCAGGAC	AGTTGGAAAT	TATGATTGCA	AATGGCTTTG	CATTTTAGAT	CATTCGTGTG	360
TGTGGATCAG	AGAAACGCAC	AAGTTCCCTG	GCATCTCGAG			400

## (2) INFORMATION FOR SEQ ID NO:1476:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 465 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

GAATTCGGCC	TTCATGGCCT	ACCACATTTT	GTCAGCAGAG	AGCCTTTTAA	ACTTGGATTC	60
CAACTTCCTG	TTGTCTAAAC	GGAACCCTCC	GAACGTAGGA	CTTATAGGGG	AAGCTGCTGT	120
GCATGTCAAA	AAAACTACTA	ATCAGAATGA	GCTTTGTCAT	CCAGAGCCAG	AACTGCTGCA	180
GAAATTTTTA	TAATTTTGCA	ACTTCTTTTT	TTACAAGGAA	CTTTTGTGCT	ACTACACATC	240
AGGACTTTTG	AAGCATCCAA	TAAATCCATT	TAATAAGTAT	GAGCATGTGT	CTGAGTGGAC	300
AAGAAAGTGA	AACCATCCAT	GCTACATTGG	ATAATTTTTC	CTCCCCCAGA	CTGGACAGGG	360
AATCTCAGCT	TTCAAAACAG	AGTAACCTGG	CTCCACTTAC	AAAGCTGCAC	AGGCATTAAA	420
GATCGTGCTG	CCTTTGTTAG	GCAGATTTGG	AGGGGAGAGC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1477:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 377 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

GAATTCGGCC	AAAGAGGCCT	ACATGTAGCT	ATCCTAAGAC	GTATTTTATT	TTGAGCCACT	60
TTCTCAGAGG	GAATTGGGTG	GGTGTGGTCG	TAAGAACACC	TAGAAAATAG	GGGTGAAACC	120
TTTATGGGGC	CAGGGGAGCC	ATGGCAGAGG	GTGGAGTGGG	GGATAGAAGC	CTTCAGACTC	180
CTCCGCCCCA	GCCACTCTGC	ACCTGGGGCC	TTTCAGCTGT	TAAAATGAAA	AGCCAATTAT	240
CTTCTGTAAA	TGAGGGAAAA	AAAGAAGGAA	TAAAAGTGTC	TATTATGTAT	GCTGATATGC	300
ATAACACTTC	AAATAAAAGG	ATATATAAGC	ACTTGACAAA	TTGAGGGAGA	AGGAGGGGAG	360
AGTGCTGGGC	GCTCGAG					377

- (2) INFORMATION FOR SEQ ID NO:1478:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 280 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

GAATTCGGCC	AAAGAGGCCT	AGAGATTCAG	TTTATTCTAT	ACTCAGACTT	TGGTATCCCC	60
TTAGATGCCC	ATGTCAAAAA	TGAGAAAGTT	GGTGACATGG	TATGGCATTT	TATTGCTTTT	120
TGTTTGTTTT	${\tt CCATTGCTAC}$	TTTCACTCAA	ATTCCAAGGA	AATCACAGAA	GAAGGGCTTT	180
TGGTGACCTA	AAAGTAGAAA	TGAAAGCAAC	AAAATGCATT	CTGTCCAGCA	GTACACTGAA	240
GACAAAAAAT	${\tt GTAGTTGAAA}$	AGTCTCAGGG	AGCGCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:1479:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 491 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

GAATTCGGCC	AAAGAGGCCT	AATTTGCTTT	GCCCAGTAGT	TGGAAAGTGA	ACTCGACTCG	60
TGATGGTTCT	CCTGTCACTT	TGGTTGATAG	CAGCCGCTCT	GGTAGAGGTT	AGGACTTCAG	120
CTGATGGACA	AGCTGGTAAT	GAAGAAATGG	TGCAAATAGA	TTTACCAATA	AAGAGATATA	180
GAGAGTATGA	GCTGGTGACT	CCAGTCAGCA	CAAATCTAGA	AGGACGCTAT	CTCTCCCATA	240
CTCTTTCTGC	GAGTCACAAA	AAGAGGTCAG	CGAGGGACGT	GTCTTCCAAC	CCTGAGCAGT	300
TGTTCTTTAA	CATCACGGCA	TTTGGAAAAG	ATTTTCATCT	GCGACTAAAG	CCCAACACTC	360
AACTAGTAGC	TCCTGGGGCT	GTTGTGGAGT	GGCATGAGAC	ATCTCTGGTG	CCTGGGAATA	420
TAACCGATCC	CATTAACAAC	CATCAACCAG	GAAGTGCTAC	GTATAGAATC	CGGAAAACAG	480
AGCCACTCGA	G					491

- (2) INFORMATION FOR SEQ ID NO:1480:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 523 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

GAATTCGGCC	AAAGAGGCCT	AATTCATTCA	GTCGTCATGA	GTTGAGTGCT	TACTACATGC	60
AAGGCACTCT	GCTAGTTATA	TTCTAATAAT	GCAGAGATAA	TTAGACATGG	TTCCCGCCCT	120
CAAGAAGCTC	ACAAAAGTAT	TCAGGAAATA	ATGCAGACTA	GTGATTTTGC	TATAAAATTA	180
TTTTTGAAGG	AAGCAGACAC	AGCAGTATTT	ACCTGTAGGT	GGAGCAAGTA	ATAAGCCATG	240
CTGTGCAATA	TATACATAAA	GCTTCTGCTT	CTCATGGGAA	TTTAGTTACA	GTGCTTGGAA	300
TGAGAAGGGG	AAGGAAAGAA	TTAACAAATG	CCAAGATTTC	TGGAGCAGAT	TGTACAGCTG	360
TGACTTTGGA	AAACAGAAAG	TAAGACCCTC	AGAAAACCAA	TGAAGTCTAA	GAGAAATAAA	420
ATTTAGTGGA	CAGGTATGAA	AAGTGTAATT	GCGCCTAACT	ACCAGATGGA	GACCTTCAGA	480
ATGGGCTATC	CTTAGAGTCT	AGTACATCAA	GAGACCCCTC	GAG		523

- (2) INFORMATION FOR SEQ ID NO:1481:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 104 base pairs
    - (B) TYPE: nucleic acid

GAATTCGGCC AAAGAGCCCT AAAAAAAAA AAAAAAGAAG ATATAAGCTA CTAGTATCAA AAATGAAAGA GGGGCTGTTT CTACTGATCC TGCAGACACT CGAG	60 104
(2) INFORMATION FOR SEQ ID NO:1482:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 337 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TC/OLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:	
GAATTCGGCC AAAGAGGCCT AAACTGAACT AAGAGATGCA CCTGAGAAAA CCTTGGCTTG CATGGGTTTG GCAATACATC AGGTGTTAAC TAAGGACCTT GAAAGGCATG CAGCTGAGTT ACAAGCCCAG GAAGGATTGT CTAATGATGG AGAAACAATG GTAAATGTGC CACATATTCA TGCAAGGTGA GGAATTTGAT GTATTAAAGT ATTACTTAGA ATGGGACATT GAAGGCCATT TAAGAATGAA NACGCTCATT TTATAAAAAT GAGGAAATCA GTAAAAAGGA CATGAGTTCC TTGCCATCTC ATTGATCATC ACACTGAACA ACTCGAG	60 120 180 240 300 337
(2) INFORMATION FOR SEQ ID NO:1483:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 168 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:	
CGATTGAATT CTAGACCTGC CTCGAGAGCG CGCTGTTGAA TACCCAGTAT GATGGTCCTT AGCCTTCTTA GACCTTTCCT GTACCACTAC CTCTATGCCT TTTGCCAAGT CCAAGTGTTC ACCAGAAATG GAACTGATGC CAGAAAGACT ACAGCAACAA TACTCGAG	60 120 168
(2) INFORMATION FOR SEQ ID NO:1484:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 478 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:	
GAATTCGGCC AAAGAGGCCT AGCAACCGCG CCTGGCTGCC TTTTCATTTT TAAAAACGTC	60
585	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

(ii) MOLECULE TYPE: cDNA

AGTGTCGCTC	CCACACAACA	TGCAAACCCT	CCTGCCGAGC	TGCGACCTTC	GCCTGTCACG	120
GAACCTGGTG	CTGAGTGTGG	${\tt TGAGAGTGAA}$	TCCTGCAGCA	CGTGGCGCAC	TGTCGGCCTC	180
TTTCATGTTT	AGCTTTTGAT	TGTGCTTATT	GTCCATTTGT	ATTTCTTCTT	CTAAGTGTCT	240
GTTCAAGACT	TTTCCGTCTT	GGCTGGAGGT	GGGAGGTGCC	TGCTCCTGTG	TTTTCTGGCA	300
TCTTTCTCTG	CTGTCTTTGT	GTGTCTGCAC	TCAGGGAGTT	TCCCTGGGGT	GTGTGCCTAG	360
AGAGGTGCTG	GTTGTACATT	${\tt TCAACGTAGG}$	GACAGATTCC	CAGCGTGTCT	TTAAAGGAGC	420
TGTGCCGCTG	TGTGCTCACT	TGACTCGCCG	GCGTTCTTGT	TTCTCCAGGC	CTCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:1485:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 307 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

GAATTCGGCC	AAAGAGGCCT	ACACACTGCA	AGAACAGAGC	CAAGAACCTA	CCATGTACCC	60
TTTACTTGGA	TTTATCATTA	CTGTTTTGCA	CATTTGCTTT	ATCATTCTTG	TTATATTTAC	120
ATATAGTTCC	TTCCCCTTGG	ATTATTTGAG	AACAAACTGC	AGAACTCACA	CCTCTTTCCC	180
CGAAGAACTA	GGCATTAGCA	CATTACAAGA	ATACGATGAT	AGAGATCAGA	AGTTAAATGC	240
TGATGAGATA	TTCCTGTCTA	ATCCACGAAC	CTTATTTCAT	TGTCATCAGT	TGTCCCAACA	300
GCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:1486:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 579 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

${\tt GAATTCGGCC}$	AAAGATTGCT	GTCCTTCAAC	GTGTTCATTA	TGAAGTTATT	AGTAATACTT	60
TTGTTTTCTG	GACTTATAAC	TGGTTTTAGA	AGTGACTCTT	CCTCTAGTTT	GCCACCTAAG	120
TTACTACTAG	TATCCTTTGA	TGGCTTCAGA	GCTGATTATC	TGAAGAACTA	TGAATTTCCT	180
CATCTCCAGA	ATTTTATCAA	AGAAGGTGTT	TTGGTAGAGC	ATGTTAAAAA	TGTTTTTATC	240
ACAAAAACAT	TTCCAAACCA	CTACAGTATT	GTGACAGGCT	TGTATGAAGA	AAGCCATGGC	300
ATTGTGGCTA	ATTCCATGTA	TGATGCAGTC	ACAAAGAAAC	ACTTTTCTGA	CTCTAATGAC	360
AAGGATCCTT	TTTGGTGGAA	TGAGGCAGTA	CCTATTTGGG	TGACCAATCA	GCTTCAGGAA	420
AACAGATCAA	GTGCTGCTGC	TATGTGGCCT	GGTACTGATG	TACCCATTCA	GGATACCATC	480
TCTTCCTATT	TTATGAATTA	CAACTCCTCA	GTGTCATTTG	AGGAAAGACT	AAATAATATT	540
ACTATGTGGC	TAAACAATTC	GAACCCACCA	GTCCTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:1487:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 352 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGAGAGTC	ACCCTTAGTT	60
TGCCATTGTG	CCAGCTAGTG	ATATTGCTGA	TGTTTTTTGT	${\tt GGGTGTTCTT}$	TTAGCAAAAC	120
GTGAATGAAT	${\tt GCATGTTTAC}$	AGGGATGCTC	TGGACTGGAG	GATGGTGAAA	TCCATCGTGG	180
TTGTCCCTCT	CCCTGAATGT	CCTTTTGTAG	CCAGGGCATC	TTTCCAATAT	GAATTATTAA	240
GCCTTAACTT	ACATTTTTGC	ATAACTTATA	ACTCTCCATT	ATATATTTGG	TTACATTTCT	300
TAGATGTTTT	CAACATTCTT	TATTAAAGTT	ATTTTATCAG	CATCCGCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:1488:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 422 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC	AAAGAGGCCT	ACAAATGGGC	AGAAGTGAAA	CAGTCTTGTG	AGATACCTGT	60
TTTTTAAAAC	TCCATTTTAG	AAAAGGAATT	AACTAGGACT	TTATATCTCT	TCGTTCAATA	120
TAATTTTAAA	GAAGAATTGT	TGAAAAGTAG	ATATGTTTTG	CCATTTGCTG	AGAATATTTT	180
GTACGTTAGC	TTGTCTCTTA	CAAAAACTAA	ATGTGTTCCT	ACTTCTGATA	ATGTATGTCA	240
ATTTAAAATT	TGGAATGGCC	AAGATAAGTT	GCTCTGCATC	TGTCCTTCAT	ATGGCTCCTG	300
AGCACAGCTC	AGTGACTGGC	CCTTGCAGTG	CTTCTACCGT	TGTAATGGGT	AAAACCAGGG	360
GAAACTGCCT	TGCTCTTGAG	CTTGAGCAGG	TTAATCAAAA	GGATAGAGCT	TCCACTCTCG	420
AG						422

- (2) INFORMATION FOR SEQ ID NO:1489:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - . (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC	AAAGAGGCCT	AGAGAAAGAG	AGAAAGAAAG	GAGGGAAGGA	AAGGAAGGAA	60
GGAAGGAAAG	AAGGAAAGAA	GGAAAGAGAG	GAGACTGAAG	GGCCAAGGAG	GGCATACAAT	120
GGAAGATGAG	AGCTGTGCTC	CCGGGAGGCT	TGTACTCATC	AAGAAAGAAA	GGAGAAAGAG	180
GGGGAAGAAA	AGAAAAAAAA	AGAATAAAGA	AAGGAGAGAT	GAAGGAATAA	AGGAAAAAA	240
GTAGAAAGGA	AAGAAGGAGA	AGGGAGAGAA	GAAAGTAGGA	AGGAGAACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:1490:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTCGGCC	AAAGAGGCCT	AGTGCAACTA	CAGATAAGTA	AACTTCGACT	GGGTTTAGTA	60
ACACCTGTCT	TTAATATTTG	TCAGTGTACC	TACATTGATA	ACATTGACCT	TTGGAAAAAT	120
TGGACTTGTA	TTGTGTTATT	TCTCTAGCAT	ATTAGTCCTA	AAAAAGTGTG	AGTAATAGGA	180
GATGGAGAGG	TGTTTGTGGA	TTGTCATTCT	${\tt GTGGTTCCTA}$	CAGCATTCAA	GTTGCGTCCG	240
TACGCTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:1491:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 435 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

GAATTCGGCC	TTCATGGCCT	AATTCTTAGA	AATAAAGCCA	CTATCATGCA	GGTTATTTAC	60
AAGTAAAAAC	ATGGAGTCAG	CCCAGTAGAG	AAACGTTCAA	ATAGTGTGGC	TCCTGCTCTG	120
CCACGTTCTG	TTTATGACTT	TGGATATTTT	ATTTATCCTT	${\tt TCTGGGGTAG}$	TTTTTCAACT	180
TTAAGGTCCT	AATAAACTTT	TAGATTTTAT	GACCTGTCCT	CTTTAGCCCT	GTAAGATTTA	240
AATATTATAA	AGAACCTGAT	TTCAAAGACA	CTGGTAAACT	TGGACAACTA	AACAAGTCCA	300
AGTATGGTAC	TTATTTGTGT	GTGTGCATAT	ATTAACCTTA	TGCATATGCT	GTTTTCACAC	360
CTATTTAAAC	TGTTTTTGAA	AAACGTATAT	ATCAGTTTTT	GGAAAACAGA	AGAAGATTTT	420
AAACGGCTAC	TCGAG					435

- (2) INFORMATION FOR SEQ ID NO:1492:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 360 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

GCGATTGAAT	ACATGTTCAA	TAAGGACAAT	GGACAGGCAC	CTTTTACCAT	CACTCCTGTG	60
TTTTCAGATT	TTCCAGTCCA	TGGGATGGAG	CCCATGAACA	ATGCCACCAA	AGGCTGTGAC	120
GAGTCTGTGG	ATGAGGTCAC	AGCACCATGT	AGCTGCCAAG	ACTGCTCTAT	TGTCTGTGGC	180
CCCAAGCCCC	AGCCCCCACC	TCCTCCTGCT	CCCTGGACGA	TCCTTGGCTT	GGACGCCATG	240
TATGTCATCA	TGTGGATCAC	CTACATGGCG	TTTTTGCTTG	TGTTTTTTGG	AGCATTTTTT	300
GCAGTGTGGT	GCTACAGAAA	ACGGTATTTT	GTCTCCGAGT	ACACTCCCAT	CGATCTCGAG	360

- (2) INFORMATION FOR SEQ ID NO:1493:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 271 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

GAATTCGGCC TTCATC ACTTTCTGTA GTCCC' ATAGAGATCC AAGAGG CATGGTATTA AGAAGG CCTGTTCCCT GCTGT	TAAAC AAACAACAAA AAAAT AAGCCATTTT CCCTT TTCAGTCTGG	AAATCCTAGT TCACCATTGT TTGCAGTATT	AATCTTAAAC GGACCCAAAT	TTTTACATTA AAATCATAGA	60 120 180 240 271
(2) INFORMATION	FOR SEQ ID NO:149	94:			
(A) (B) (C)	ICE CHARACTERISTI LENGTH: 310 bas TYPE: nucleic a STRANDEDNESS: d TOPOLOGY: linea	e pairs cid ouble			
(ii) MOLEC	CULE TYPE: cDNA				
(xi) SEQUE	ENCE DESCRIPTION:	SEQ ID NO:	1494:		
GAATTCGGCC TTCATC CCCCAGGGTC TCTCAC AAAGTTAGAT TGGGG/ GTTTCTCCAA GGTCG' GCCTTCAGTT TCTTGC CAAACTCGAG	CAAGG CTGCAATCAA AAGGA TCTGCTTCCA FTGGA CTAAGGGTCT	AGGGCTGACT AGCTCACTCA CAGTTCCTCA	AGGACTTGGA GTAGTTACTG CTGACAGTTG	ATCTCATTTG GCAGGATTAG GCCTGAGGCT	60 120 180 240 300 310
(2) INFORMATION I	FOR SEQ ID NO:145	95:			
(A) (B) (C)	CE CHARACTERISTI LENGTH: 138 bas TYPE: nucleic a STRANDEDNESS: d TOPOLOGY: linea	e pairs cid ouble			
(ii) MOLEC	TULE TYPE: cDNA				
(xi) SEQUE	NCE DESCRIPTION:	SEQ ID NO:	1495:	·	
GAATTCGGCC AAAGAG GTTCATGTTA GATTG CTTAATAACG CCCTCG	CTGC CCTTCCTCTT		-		60 120 138
(2) INFORMATION	FOR SEQ ID NO:14	96:			
(A) (B) (C)	ICE CHARACTERISTI LEMOTH: 102 bas TYPE: nucleic a STRANDEDNESS: d TOPOLOGY: linea	e pairs cid ouble			
(ii) MOLEC	CULE TYPE: cDNA				
(xi) SEQUE	ENCE DESCRIPTION:	SEQ ID NO:	1496:		
GAATTCGGCC AAAGAG				TTCTGAAATG	60 102
(2) INFORMATION	FOR SEQ ID NO:14	97:			

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 483 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497: GAATTCGGCC AAAGAGGCCT ATTTGTTTCT TTGTACTGCC TAACTTTAGA AAGACCTGNA 60 ANCGGTANCA TGAAAACATT TTTAGAGAGA ATTACCAGGC ATTTTTGGTA GAATGAGTGT 120 TTAATGGAAC AGTCCAGAGA ACTCATCAAA GATGTTTATT AAAACGCGCA GACCTGCTCC 180 AATTAAGGGC CCAGTCAGTG GTGTTAACAG TGAAGGGACT GTTCCAGAGG CGTGCTGCAC 240 GGGACGCCCA CCCCAAATAC AAATGGTTTG CCAGTAGCTC ACAAATGAAC CCCATTGCCT 300 TGCACTTAAG CTTCCTGAAG CACATACATA TCCTGCTTTG TGCTTTCCGC CCTATAGTAA 360 ACGCAAACCA ATGGAGATGT GAAGCAATCT AATAGCAACA AGGCAAACCT CTACTTCCTC TAAAGAGGAT TGCATCCTCT TGCTATCTTT GCCGATGCTC TCCTACAGAC CCATCCGCTC 480 GAG 483 (2) INFORMATION FOR SEQ ID NO:1498: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498: GAATTCGGCC AAAGAGGCCT AAAATTTCAA TAGGCTATAG AGTTTTCCAT GAGAGTGTGT 60 GTGTGTGTGT GTGTGTGTG GTGTAAAGAA CTCTTACATT TCAGTGAGAA AATATTTTCA 120 TTGAAAGGAA ACACAGAACT CGAG 144 (2) INFORMATION FOR SEQ ID NO:1499: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 418 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCGGCC	AAAGAGGCCT	AAAATAACTG	TCCAATTAAC	TGAACACTGA	GGTAGCTGGG	60
TACAGACTTT	AGCGGCTACA	TTTGACAAAC	ATTGCAATTA	CAAGCAGCAA	CACAAACCAA	120
CCTTGGGATG	GGGATAGAAA	TCTTTTCNTT	CTTCNTTCTT	GGGGGTTTGA	GACAGAGTCT	180
CGCTCTGTCA	CCCAGGCCGG	AGTGCAGTGG	CGCAATCTCC	GCTCACTGCA	AACTCCACCT	240
CCTGGGTTCA	AGTGATCCTC	CTGCCTCAGC	CTCCCAAGTA	GCTTGGATTA	TGGGTGCCCA	300
CCACCATGCC	TGGCTAATTT	TTGTATGTTT	GATAGAAACG	GTGTTTCACC	CTGTTGACCA	360
GGCTGGCCTT	GAGCTCCTGA	CTTCAGGTGA	TCCACCTGCC	TCAGCCCCCC	GACTCGAG	418

- (2) INFORMATION FOR SEQ ID NO:1500:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 337 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCGGCC	AAAGAGGCCT	ACAAAGACCA	AGGTATCACA	TTCTGCCATT	AGCTGCTACC	60
TCTCCCTTCC	CCATTTTCAG	ACAGATTGAG	CCCACTTTTT	GTGTCCTCCT	CTGCTCTTAA	120
GCTGTTTCTC	ATCGTGGGTG	CTCAGCAACT	TGTCTGCTCT	CACTCTAGTT	TCTATTTGCT	180
TCCCTGAAAT	TAGCCTTTAA	CTATGCCCAG	ACAAGCCAGA	GCCTTGCCTA	AACTTCTAAT	240
TCCTCTGTGC	TTCTTAGTGT	ATCCTTTCTG	CCTGCTTGCC	TGCCTGCCTT	CCTGCCTGCT	300
TGCCTGCCTT	ACTGACCCTT	TGCCCCACGC	TCTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:1501:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 105 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1501:

GAATTCGGCC	AAAGAGGCCT	AAACCGTCGA	TTGAATTCTA	GACCAGCCTC	ATCTCCTGTT	60
CCTCTCTCCC	TCCCAACTAT	GTTGGCCTCC	CTGCTGCTCC	TCGAG		105

- (2) INFORMATION FOR SEQ ID NO:1502:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 701 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1502:

GAATTCGGCC	AAAGAGGCCT	ACTGTGAACC	TAAAACTCCT	ATAAAGAAAA	GTAAAGTCTT	60
AAAAACAAAC	AAATACACAG	CAACAATCTT	ATTTTCCCCA	GCCTGTCTTA	TGTTAGGGTG	120
CAGATGTGAT	TTCTGTGTGG	CTAATCAGAT	GCCCTTGTGT	GAGAGACTGA	TTTGAACAGA	180
GGCAGGGGCA	TCCATCTTTC	TAGTGTCAGT	CACAGCAGAA	GCAGTGAGGT	CCTGGTGTCT	240
GTCGCTGCAG	TGGTGGCTTT	TGATACAGGA	GTTCCCTGAT	GGCAGTAGCT	TCTTTGTGGG	300
TTCAGTTCTG	${\tt TTGTGTGGTT}$	${\tt CTGCAAGTTC}$	AGCTTAGAGT	CTGTTTCTTC	AGCTGTTTCA	360
ATGACCCTCT	GAGCTGTCTA	CCATGAAAAA	TTCTATCCTG	CTTACACTAA	TTAGAGCCAA	420
TCCTGTTATT	TACAAATGAA	TATCCTGACC	AGTAATGAAG	GTCTAGACTT	AACTGTAATA	480
TTTTATGACT	TAAATTGTTG	GCATATGTGA	AAACTTTTTG	TTTATTCTAA	ACTTTTTTGT	540
TGTTGTTGTA	AAATAAAACA	TTTATGAAAA	GCGCACCAAA	AAGGATAACA	AATGAGAGTA	600
ATGCAACATA	CAGGCACCAG	CAACTCAGGC	CAGGGAGATG	ATATATGAGC	ATCCCCAATC	660
TCCCCTTTAC	ACTCCCTCAA	ATAACTCAAT	CAAGACTCGA	G		701

- (2) INFORMATION FOR SEQ ID NO:1503:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 257 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1503: GAATTCGGCC TTCATGGCCT AGGAACTAGG TGACTTTGGG GCTCATCTCA CAAGTTTCCT 60 TACACTTAGG GATCAGTCTT TTGCTTCCTG TTGTCCTCTG CCTGAAAGTA GTTGCCAAGT 120 TGTACTGTTT TATATATCCA CCACAGCATG AGTTAAACCA AAGTCTGGAT CAGCAGACTG 1.80 CCAGATTTTT TTTTAACAAA TTTATTAATC AATACATTTT GTCCATGTCT ACAGTTGTTT 240 ATGGGGGAGA ACTCGAG 257 (2) INFORMATION FOR SEQ ID NO:1504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 277 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1504: GAATTCGGCC TTCATGGCCT AGGGGACCTT GGGAGAATGT AATCCCTGCC CCTAGTCTCA 60 GTTTCTGCAT CCACGGAAGA GGGGTGAAGA TGGTCCCTAC CCCTCCAGAA TGTTCTTTTT 120 TTTTTTTT AAAAAAAAA AAAAAAAA AAAGTACGTT ATGTTTTCAG ATAAGAACAC TTCTTCATGG ATGACTTGAA ATAATTGCCA TGGTCCCTAA GTTTTCCTCT CTGTAGATGA 240 ATGATATAGC TCAGTATCTA AGCAGTGGAT CCTCGAG 277 (2) INFORMATION FOR SEQ ID NO:1505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1505: GAATTCGGCC TTCATGGCCT AGACCTGCCT CGAGCCTCCC AAGCTGCTGG TATTACAGGC GTGAACCACT GCACCTGGCC TAATACGATA TTCTTACAAT TTAAAAAATG AAAGCAGAGG 120 AATGGTGGCA GGGAAGCTGA CATTTTAAGA GTTCACTTCC TTGTAGTTAT CACAGTTAAT 180 TCTTACTGTT AGAATAAGTG GTAACTTGCC AAGGTCACAT TGCTAGATGT CAGAGCAGAA 240 300 GTTAGTGTTT ATTGAACACC TATTGTGTTC TGGCCCTCGA G 341 (2) INFORMATION FOR SEQ ID NO:1506: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1506:

GAAT	TCGGCC	TTCATGGCCT	AGGCATTTTG	TCTCTAGAAT	TACCCACCCG	TTCCTGCGCT	60
CTAC	CGGTTCT	CCATGCCCCC	TCCAGTTTGG	GGGTCTAAAC	CGAACAGGAG	AGGTGCAGGG	120
GACC	CAGGAGG	TGTCCTGGCA	CAAAGGTTCG	GGGGTCTCCC	TGGCAAGGGG	TCCCAGGGCC	180
TGGA	AGCCCGA	GGCCCAGCCA	AAAGCACACA	GCATCAAAAC	ATGTTTTTAG	TGGGAAGCTC	240
CAGG	CCCTGC	CCCTCCCCGG	GGGCCTCGAG				270

- (2) INFORMATION FOR SEQ ID NO:1507:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 462 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1507:

GAATTCGGCC	TTCATGGCCT	AGAGCAGGAA	GATTGTGTGA	GTGCTGGGGT	TTGGGGGTGC	60
CCAAGTTGGG	AACCAGTGGA	GGGAGAGAGA	GGTAGGAGGT	AGATGGATGG	AGATCAAAGG	120
CCAGGCCTGT	GGCCAAGGGG	GCTGCTAACC	CTTCAACCCT	GTGTTAGCCT	GTACACTCAC	180
CAGGCCAGGC	TCAGCAGGCG	GGCTGTTCAC	CTCCTGGCAG	CAAATGGTCC	AGAATGTGCC	240
CTCGCTGCAG	CCCAGCTGGC	TCCAGAAGGG	GGACCACAGA	GGCTGGAGCT	ATGCATGCAC	300
AGTGCTTTCT	CCCAACCTTG	CTTCTGAGAA	AAGTGTCCCT	GCGAGGGCCC	TGGAGGAGGG	360
AGCTAGGGAC	CAGCAGAAGG	GCCTAGGTTT	CTGTAGCATC	ATTTTTAGCC	CTGGCTGAAT	420
CTGGGAAGCA	CCTGGTGGCT	TTAACATTCC	CGTTAGCTCG	AG		462

- (2) INFORMATION FOR SEQ ID NO:1508:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 694 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1508:

GAATTCGGCC	TTCATGGCCT	AGTCACAATC	CACTTAAAGA	AGTTTGGTTA	TATTTCAGTG	60
AAAATTTTCT	TCCAGAGTAG	GTTTTTTTC	GTGGGTTGGG	GGGTAACTTT	ACTACAATTA	120
GTAAGTATGG	TGCAGAATTT	CATGCAAATG	AGGAGTGCCA	GCAGTGTGAT	AATTTAAACA	180
TATTTAAACA	AAAACAAAAA	AAATGAATGC	ACAAACTTGC	TGCTGCTTAG	ATCACTGCAG	240
CTTCTAGGAC	CCGGTTTCTT	TTACTGATTT	AAAAACAAAA	САААААААА	TAAAAAAGTT	300
GTGCCTGAAA	TGAATCTTGT	TTTTTTTTAT	AAGTAGCCGC	CTGGTTACTG	TGTCCTGTAA	360
AATACAGACA	CTTGACCCTT	GGTGTAGCTT	CTGTTCAACT	TTATATCACG	GGAATGGATG	420
GGTCTGATTT	CTTGGCCCTC	TTCTTGAATT	GGCCATATAC	AGGGTCCCTG	GCCAGTGGAC	480
TGAAGGCTTT	GTCTAAGATG	ACAAGGGTCA	GCTCAGGGGA	TGTGGGGGAG	GGCGGTTTTA	540
TCTTCCCCCT	TGTCGTTTGA	GGTTTTGATC	TCTGGGTAAA	GAGGCCGTTT	ATCTTTGTAA	600
ACACGAAACA	TTTTTGCTTT	CTCAAGTTTT	CTGTTAATGG	CGAAAGAATG	GAAGCGAATA	660
AAGTTTTACT	GATTTTTGAG	ACACTAGACT	CGAG			694

- (2) INFORMATION FOR SEQ ID NO:1509:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1509:

GAATTCGGCC	TTCATGGCCT	AATGAGGTTC	TATCTAGAGG	TGATGGGAGA	CAGTGACAGA	60
			CGCAACCTAG			120
ACAATAGGGT	TCACTCTCCA	ATGAGAATCT	AATGCTGCCG	CTGATCTGAC	AGGTGCCAGA	180
GCTCAGGCGG	TAATACGAGA	GGCTGGAGAT	ACAGATAAAG	CTTCAGTTGC	TTGCCCGCCA	240
CTTACCTCCT	$\mathtt{CTTGTGCGGC}$	CCAGTTCCTA	ACAGGCCACA	GACCGCTACC	AGTCCATGGC	300
CTGGAAGTTG	GGGACCCCTC	TACTGGGATA	TTTATAATTG	CATATGTGGT	TACCTAATAT	360
			GGCCATTCTC			420
CCTTACAGTT	TTACTGTTTA	GCAGCAATGT	TTTCTACCCC	TTCTTAAAAT	TTTCAGCCAC	480
CACACTCGAG						490

- (2) INFORMATION FOR SEQ ID NO:1510:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 313 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1510:

GAATTCGGCC	TTCATGGCCT	ACTCTCTCAT	TCCTACCCTC	CTCCCCTCCA	CTCACGCTCC	60
TCCCAATCCC	CAAGGTCCTC	TCATTCCCAC	CTTCCTCCCT	TCCTCTCCTC	ACGCTCCTCC	120
CTATCCCCGA	GCTCCTCTCT	CATCCCTACC	CTCCTCCCCT	CCACTCACGC	TCCTCCCAAT	180
CCCCAAGGTC	CTCTCATTCC	CACCTTCCTC	CCTTCCTCTC	CTCACGCTCC	TCCCTATCCC	240
CGAGCTCCTC	TCTCACTCCC	TCCCTCCTCT	CATGCTCCTC	CCCCCTCTCC	TCATGCTCCT	300
CCCCATCCTC	GAG					313

- (2) INFORMATION FOR SEQ ID NO:1511:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 354 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1511:

GCCGGGTGGG	CCGGAGGTGG	CGCGGCCGCA	CGGCTTTGTT	CCGGAAAGCC	CTTAGGTGGA	60
GAGCGATGTG	GGGCGCGCA	GGGGGATCGC	GTAGAGGAAC	CTTCGCGCAC	CGCCTCTCCG	120
$\operatorname{GGTCTGGGAA}$	TCTGCTGAAC	TCCTTGCCTC	TCTTGGGGTC	CCTCGAACGC	CCCAGCTAAG	180
AAGGGCGGG	GCCTTGCCAG	GGCGCGAGCA	ACATGACGTT	CAAGGTCTTC	CTGTGGCTTC	240
TGTAAAGAAA	TGTTCACGTG	GGAGCCTGTC	CACATGGGCT	GTACTAAGGA	TCTGGCACGA	300
GGAAGAAATA	TCACTGCAGA	ACCTGAAGCC	CTCCGTTGGA	AGGGTCACCT	CGAG	354

(2) INFORMATION FOR SEQ ID NO:1512:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 407 base pairs

  - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1512:

GAATTCGGCC AAAGAGGCCT AGA	AGCAGCTT GGCTAAAAGT	AAGGGTGTCG	TGCTGATGGC	60
CCTGTGCGCA CTGACCCGCG CTC	CTGCGCTC TCTGAACCTG	GCGCCCCGA	CCGTCGCCGC	120
CCCTGCCCCG AGTCTGTTCC CCC				180
CTCTGCCTTG ATGTTGCTCC CCT				240
CTTTGTGTCC TGGAAGAGTC GTA	ACCAAGTA CACCATTACA	CCAGTGAAGA	TGAGGAAGTC	300
TGGGGGCCGA GACCACACAG GTC	GGGAACAA GGACAGGGG	ATTTAAGCAG	TCAAAAGGAA	360
AAACATGTTA AGACCCTAGA CTT	TGTATATT GACACACAGA	ACTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1513:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 422 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1513:

${\tt GAATTCGGCC}$	AAAGAGGCCT	ACATTCATAC	AATTACAGAA	TTCAAATATT	GCAAAAGGAT	60
GTGTGTCTTT	CTCCCCGAGC	TCCCCTGTTC	CCCTTCATTG	AAAACCACCA	CGGTGCCATC	120
TCTTGTGTAT	GCAGGGCTAT	GCACCTGCAG	GCACGTGTGT	ATGCACTCCC	CGCTTGTGTT	180
TACACAAGCT	GTGGGGTGTT	ACGCATGCCT	GCTTTTTTCA	CTTAATAATA	CAGCTTGGAG	240
AGATTTTTGT	ATCACATTAT	AAATCCCACT	CGCTCTTTTT	GATGGCCACA	TAATAACTAC	300
TGCATAATAT	GGATACGCCT	TATTTGATTT	AACTAGTTCC	CTAATGATGG	ACTTTTAAGT	360
TGTTTCCTTT	TTTTTTTTTT	TTTGCTACTG	CAAACGATGC	TATCTAGGCC	TCTTTGGCCG	420
AA						422

- (2) INFORMATION FOR SEQ ID NO:1514:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 485 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1514:

GAATTCGGCC	AAAGAGGCCT	<b>ልፐርርልልልልጥጥ</b> ር	እእርእሮርሚርእጥ	CTTTCACCAC	אתמאכממאאא	60
						• -
	TGACCTAAAA					120
ATTCAGAGAA	CTCCAGTAGT	AGGACAGAGT	TTCAGCAAAT	AATCAATTTA	GCATTACAAA	180
AAACAGGGAT	GGTAGGGAAA	ATAGAAGGAG	AAAACTCTAA	AATAGGTGAT	GATAATGAAA	240
ATTTAACCTT	TAAATTAGAA	GTAAATGAGC	TGAGTGGTAA	ATTAGACAAC	ACTAACGAAT	300
ACAATAGTAA	TGATGGTAAG	AAATTACCCC	AGGGTGAATC	ACGAAGTTAC	GAAGTCATGG	360
GAAGTATGGA	AGAAACCTTA	TGCAATATAG	ATGACAGAGA	TGGAAATCGC	AATGTCCATT	420
TAGAATTTAC	AGAAAGAGAG	AGTAGGAAGG	ATGGAGAGGA	TGAATTTGTC	AAAGAAAAAC	480

. 485

TCGAG

(2) INFORMATION FOR SEQ ID NO:1515:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1515:	
GAATTCGGCC AAAGAGGCCT AGGCACAGAA GGGTGGTGAG TGTGATCAAA TCTAGTCTCA CTCCACTTT TTAGTCTCAC TCCTACTTTT GTCCACCACC CAGGCACGGA GAGAAAGGAA TGTTTAGCAC AAGACACAGC GGAGCTCGGG ATTGGCTAAA CTCCCATAGT ATTTATGGTG GCCGCCGGCG GGGGCCCCAG CCCAGCTTGC AGGCCACCTC TAGCTTTCTT CCTACCCCAT TCCCGGCTTC CCTCCTCCTC CCCTGCAGCC TGGTTAGGTG GATACCTGCC CTGACATGTG AGGCAAGCTA AGGCCTGGAG GGTCAGATGG GAGACCAGGT CCCAAGGGAG CAAGACCTCG CGAAGCGCAG CAGCCCCGGC CCTAGGCCTC TTTGGCCGAA	60 120 180 240 300 360 400
(2) INFORMATION FOR SEQ ID NO:1516:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 145 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1516:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1516:  GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA ATGGGTAAAT AAATGCTGGC TCGAG	60 120 145
GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA	120
GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA ATGGGTAAAT AAATGCTGGC TCGAG	120
GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA ATGGGTAAAT AAATGCTGGC TCGAG  (2) INFORMATION FOR SEQ ID NO:1517:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	120
GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA ATGGGTAAAT AAATGCTGGC TCGAG  (2) INFORMATION FOR SEQ ID NO:1517:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	120
GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA ATGGGTAAAT AAATGCTGGC TCGAG  (2) INFORMATION FOR SEQ ID NO:1517:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA	120
GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA ATGGGTAAAT AAATGCTGGC TCGAG  (2) INFORMATION FOR SEQ ID NO:1517:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1517:  GCTGGACCTC CTGTGCAAGA ACATGAAACA GCTGTGGTTC TTCCTTCTCC TGGTGGCAGC TCCCAGATCG GTTCTGTCCC AGGTGCAGCT GCGGGAGTCG GGCCCAGGAC TGGTGAAGCC TTCGGAGACC CTGTCCCTCA CCTGCACTGT CTCTGGTACT TCCGTCAGAA GTGTTAGTTA CGACTGGAGT TGGCTCCGGC AGTCCCCGGG GAAGGGACTG GAGTGGCTTG GAGAGATTGA	120 145 60 120 180 240

- (A) LENGTH: 161 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1518:

GAATTCGGCC AAA	GAGGCCT ACTCATGCA	C CTAATTGGAT	CCTATCTTTG	TGTTGTTAGC	60
TGGTTATTAT GCA	GACTTTA TTATGTGGT	GTTTTATAGT	GTCCATAACC	TATGTACTTA	120
AGTTTGTTTT TGT	GGTGGCG CTTCCAATT	A GGGCTCTCGA	G		161

- (2) INFORMATION FOR SEQ ID NO:1519:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 561 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1519:

GAATTCGGCC	TTCATGGCCT	AATATAAAAC	AATGTTTTTC	AAGGCATTAT	ATAATAGGCT	60
AAGGACAGTG	ACCTCCAAGA	GACAGCAAAC	AAGGTAATAC	CTGTGACTGC	TCCAGCTTAC	120
TGCCTTGAGA	GAATTAATAG	TAGGTTTGTG	GTACAGGGAG	GGAGAATCCA	GTCAGAGCCC	180
AGCGGACTTG	CTGAATTAAG	GAAATGGAGC	TGAGAGTCCA	GAGAGACCAA	CATGGCTAAA	240
GTTGTCATGA	CAGAGCACTC	AGAACTAGAG	AGCTGCACAG	CAACATAACC	TAAGAGCTCT	300
GAAGATAATC	TCCCTCAAAT	ACTCAGCTGA	GTACTGATCA	ACATATATGT	GTGAGGAAGC	360
TATCTGAGGC	TGACAAAGAA	CTGCCTGAAG	AGATTAGAGG	GAACAGTACT	TGGCACTCAC	420
ACAGAATTGG	AAACTGTACC	TGTTCCCACC	AGCCAAACTG	GAAAAACCTC	AGGATTCATG	480
GGGTACTCAG	AAAGGACTTG	CATCAGGTAT	GGGGAATAAT	TAGCCCTAGA	CAGAGCACTG	540
CTCTAATCCC	ATCCACTCGA	G				561

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145,

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NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470. SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, SEQ ID NO:1500, SEQ ID NO:1501, SEQ ID NO:1502, SEQ ID NO:1503, SEQ ID NO:1504, SEQ ID NO:1505, SEQ ID NO:1506, SEQ ID NO:1511, SEQ ID NO:1512, SEQ ID NO:1513, SEQ ID NO:1514, SEQ ID NO:1515, SEQ ID NO:1516, SEQ ID NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;

or a complement of said sequence.

# 2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ

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NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;
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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, SEQ ID NO:1500, SEQ ID NO:1501, SEQ ID NO:1502, SEQ ID NO:1503, SEQ ID NO:1504, SEQ ID NO:1505, SEQ ID NO:1506, SEQ ID NO:1507, SEQ ID NO:1508, SEQ ID NO:1509, SEQ ID NO:1510, SEQ ID NO:1511, SEQ ID NO:1512, SEQ ID NO:1513, SEQ ID NO:1514, SEQ ID NO:1515, SEQ ID NO:1516, SEQ ID NO:1517, SEQ ID NO:1518, and SEO ID NO:1519:

or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109,

SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEO ID NO:175, SEO ID NO:176, SEO ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262,

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